Amendments

In the Specification:

Please amend paragraph **[0084]** as follows:

[0084] Fig. 11 (SEQ ID NO: 147) shows the recombination region of pAd/CMV/V5-DEST.

Please amend paragraph **[0085]** as follows:

[0085] Fig. 12 (SEQ ID NO: 148) shows the recombination region of pAd/PL-DEST.

Please amend paragraph **[0089]** as follows:

[0089] Fig. 16 (SEQ ID NO: 126) provides the nucleotide sequence of the *OpIE*2 promoter.

Please amend paragraph **[0090]** as follows:

[0090] Fig. 17 (SEQ ID NO: 149) shows the recombination region of pIB/V5-His-DEST.

Please amend paragraph **[0119]** as follows:

[0119] **Fig.** 46A (SEQ ID NO: 150) shows the recombination region of pLenti6/V5-DEST. Figure 46B (SEQ ID NO: 151) shows the recombination region of the expression clone resulting from pLenti6/UbC/V5-DEST x entry clone. Figures 46C and 46D (SEQ ID NO: 136) show[[s]] the complete sequence of the UbC promoter.

Please amend paragraph **[0120]** as follows:

[0120] Fig. 47 (SEQ ID NO: 137) is a schematic representation of directional topoisomerase cloning according to the invention.

Please amend paragraph **[0121]** as follows:

[0121] Fig. 48 (SEQ ID NO: 152) shows the cloning region of pLenti6/V5-D-TOPO®.

Please amend paragraph **[0134]** as follows:

[0134] Figures 61A (SEQ ID NO: 153) and 61B (SEQ ID NO: 154) provide the sequences of the recombination

Please amend paragraph **[0165]** as follows:

[0165] Topoisomerase recognition site. As used herein, the term "topoisomerase recognition site" or "topoisomerase site" means a defined nucleotide sequence that is recognized and bound by a site specific topoisomerase. For example, the nucleotide sequence 5'-(C/T)CCTT-3' (SEQ ID NO: 155) is a topoisomerase recognition site that is bound specifically by most poxvirus topoisomerases, including vaccinia virus DNA topoisomerase I, which then can cleave the strand after the 3'-most thymidine of the recognition site to produce a nucleotide sequence comprising 5'-(C/T)CCTT-PO_4-TOPO, *i.e.*, a complex of the topoisomerase covalently bound to the 3' phosphate through a tyrosine residue in the topoisomerase (see Shuman, *J. Biol. Chem.* 266:11372-11379, 1991; Sekiguchi and Shuman, *Nucl. Acids Res.* 22:5360-5365, 1994; each of which is incorporated herein by reference; see, also, U.S. Pat. No. 5,766,891; PCT/US95/16099; and PCT/US98/12372 also incorporated herein by reference). In comparison, the nucleotide sequence 5'-GCAACTT-3' (SEQ ID NO: 156) is the topoisomerase recognition site for type IA *E. coli* topoisomerase III.

Please amend paragraph **[0213]** as follows:

[0213] Sites that may be used in the present invention include att sites. The 15 bp core region of the wildtype att site (GCTTTTTTAT ACTAA (SEQ ID NO: 1)), which is identical in all wildtype att sites, may be mutated in one or more positions. Other att sites that specifically recombine with other att sites can be constructed by altering nucleotides in and near the 7 base pair overlap region, bases 6-12 of the core region. Thus, recombination sites suitable for use in the methods, molecules, compositions, and vectors of the invention include, but are not limited to, those with insertions, deletions or substitutions of one, two, three, four, or more nucleotide bases within the 15 base pair core region (see U.S. Application Nos. 08/663,002, filed June 7, 1996 (now U.S. Patent No. 5,888,732) and 09/177,387, filed October 23, 1998, which describes the core region in further detail, and the disclosures of which are incorporated herein by reference in their entireties). Recombination sites suitable for use in the methods, compositions, and vectors of the invention also include those with insertions, deletions or substitutions of one, two, three, four, or more nucleotide bases within the 15 base pair core region that are at least 50% identical, at least 55% identical, at least 60% identical, at least 65% identical, at least 70% identical, at least 75% identical, at least 80% identical, at least 85% identical, at least 90% identical, or at least 95% identical to this 15 base pair core region.

Please amend paragraph **[0215]** as follows:

[0215] Analogously, the core regions in attB1, attP1, attL1 and attR1 are identical to one another, as are the core regions in attB2, attP2, attL2 and attR2. Nucleic acid molecules suitable for use with the invention also include those comprising insertions, deletions or substitutions of one, two, three, four, or more nucleotides within the seven base pair overlap region (TTTATAC, bases 6-12 in the core region, SEQ ID NO: 157). The overlap region is defined by the cut sites for the integrase protein and is the region where strand exchange takes place. Examples of such mutants, fragments, variants and derivatives include, but are not limited to, nucleic acid molecules in which (1) the thymine at position 1 of the seven bp overlap region has been deleted or substituted with a guanine, cytosine, or adenine; (2) the thymine at position 2 of the seven bp overlap region has been deleted or substituted with a guanine, cytosine, or adenine; (3) the thymine at position 3 of the seven bp overlap region has been deleted or substituted with a guanine, cytosine, or adenine; (4) the adenine at position 4 of the seven bp overlap region has been deleted or substituted with a guanine, cytosine, or thymine; (5) the thymine at position 5 of the seven bp overlap region has been deleted or substituted with a guanine, cytosine, or adenine; (6) the adenine at position 6 of the seven bp overlap region has been deleted or substituted with a guanine, cytosine, or thymine; and (7) the cytosine at position 7 of the seven bp overlap region has been deleted or substituted with a guanine, thymine, or adenine; or any combination of one or more (*e.g.*, two, three, four, five, etc.) such deletions and/or substitutions within this seven bp overlap region. The nucleotide sequences of representative seven base pair core regions are set out below.

Please amend paragraph **[0216]** as follows:

[0216] Altered att sites have been constructed that demonstrate that (1) substitutions made within the first three positions of the seven base pair overlap (TTTATAC, SEQ ID NO: 157) strongly affect the specificity of recombination, (2) substitutions made in the last four positions (TTTATAC, SEQ ID NO: 157) only partially alter recombination specificity, and (3) nucleotide substitutions outside of the seven bp overlap, but elsewhere within the 15 base pair core region, do not affect specificity of recombination but do influence the efficiency of recombination. Thus, nucleic acid molecules and methods of the invention include those comprising or employing one, two, three, four, five, six, eight, ten, or more recombination sites which affect

recombination specificity, particularly one or more (*e.g.*, one, two, three, four, five, six, eight, ten, twenty, thirty, forty, fifty, etc.) different recombination sites that may correspond substantially to the seven base pair overlap within the 15 base pair core region, having one or more mutations that affect recombination specificity. Particularly preferred such molecules may comprise a consensus sequence such as NNNATAC (SEQ ID NO: 158) wherein "N" refers to any nucleotide (*i.e.*, may be A, G, T/U or C). Preferably, if one of the first three nucleotides in the consensus sequence is a T/U, then at least one of the other two of the first three nucleotides is not a T/U.

Please amend paragraph **[0217]** as follows:

[0217] The core sequence of each att site (attB, attP, attL and attR) can be divided into functional units consisting of integrase binding sites, integrase cleavage sites and sequences that determine specificity. Specificity determinants are defined by the first three positions following the integrase top strand cleavage site. These three positions are shown with underlining in the following reference sequence: CAACTTTTTATAC AAAGTTG (SEQ ID NO: 2). Modification of these three positions (64 possible combinations) can be used to generate att sites that recombine with high specificity with other att sites having the same sequence for the first three nucleotides of the seven base pair overlap region. The possible combinations of first three nucleotides of the overlap region are shown in Table 1.

Please amend paragraph **[0221]** as follows:

[0221] For example, mutated att sites that may be used in the practice of the present invention include attB1 (AGCCTGCTTT TTTGTACAAA CTTGT (SEQ ID NO: 3)), attP1 (TACAGGTCAC TAATACCATC TAAGTAGTTG ATTCATAGTG ACTGGATATG TTGTGTTTTA CAGTATTATG TAGTCTGTTT TTTATGCAAA ATCTAATTTA ATATATTGAT ATTTATATCA TTTTACGTTT CTCGTTCAGC TTTTTTGTAC AAAGTTGGCA TTATAAAAAA GCATTGCTCA TCAATTTGTT GCAACGAACA GGTCACTATC AGTCAAAATA AAATCATTAT TTG (SEQ ID NO: 4)), attL1 (CAAATAATGA TTTTATTTTG ACTGATAGTG ACCTGTTCGT TGCAACAAAT TGATAAGCAA TGCTTTTTTA TAATGCCAAC TTTGTACAAA AAAGCAGGCT (SEQ ID NO: 5)), and attR1 (ACAAGTTTGT ACAAAAAAGC TGAACGAGAA ACGTAAAATG ATATAAATAT CAATATATTA AATTAGATTT TGCATAAAAA ACAGACTACA

TAATACTGTA AAACACAACA TATCCAGTCA CTATG (SEQ ID NO: 6)). Table 3 provides the sequences of the regions surrounding the core region for the wild type att sites (attB0, P0, R0, and L0) as well as a variety of other suitable recombination sites. Those skilled in the art will appreciated that the remainder of the site may be the same as the corresponding site (B, P, L, or R) listed above.

Table 3. Nucleotide sequences of att sites.		
attB0	AGCCTGCTTT TTTATACTAA CTTGAGC	(SEQ ID NO: 7)
attP0	GTTCAGCTTT TTTATACTAA GTTGGCA	(SEQ ID NO: 8)
attL0	AGCCTGCTTT TTTATACTAA GTTGGCA	(SEQ ID NO: 9)
attR0	GTTCAGCTTT TTTATACTAA CTTGAGC	(SEQ ID NO: 10)
attB1	AGCCTGCTTT TTTGTACAAA CTTGT	(SEQ ID NO: 11)
attP1	GTTCAGCTTT TTTGTACAAA GTTGGCA	(SEQ ID NO: 12)
attL1	AGCCTGCTTT TTTGTACAAA GTTGGCA	(SEQ ID NO: 13)
attR1	GTTCAGCTTT TTTGTACAAA CTTGT	(SEQ ID NO: 14)
attB2	ACCCAGCTTT CTTGTACAAA GTGGT	(SEQ ID NO: 15)
attP2	GTTCAGCTTT CTTGTACAAA GTTGGCA	(SEQ ID NO: 16)
attL2	ACCCAGCTTT CTTGTACAAA GTTGGCA	(SEQ ID NO: 17)
attR2	GTTCAGCTTT CTTGTACAAA GTGGT	(SEQ ID NO: 18)
attB5	CAACTTTATT ATACAAAGTT GT	(SEQ ID NO: 19)
attP5	GTTCAACTTT ATTATACAAA GTTGGCA	(SEQ ID NO: 20)
attL5	CAACTTTATT ATACAAAGTT GGCA	(SEQ ID NO: 21)
attR5	GTTCAACTTT ATTATACAAA GTTGT	(SEQ ID NO: 22)
attB11	CAACTTTTCT ATACAAAGTT GT	(SEQ ID NO: 23)
attP11	GTTCAACTTT TCTATACAAA GTTGGCA	(SEQ ID NO: 24)
attL11	CAACTTTTCT ATACAAAGTT GGCA	(SEQ ID NO: 25)
attR11	GTTCAACTTT TCTATACAAA GTTGT	(SEQ ID NO: 26)

Table 3. Nucleotide sequences of att sites.		
attB17	CAACTTTTGT ATACAAAGTT GT	(SEQ ID NO: 27)
attP17	GTTCAACTTT TGTATACAAA GTTGGCA	(SEQ ID NO: 28)
attL17	CAACTTTTGT ATACAAAGTT GGCA	(SEQ ID NO: 29)
attR17	GTTCAACTTT TGTATACAAA GTTGT	(SEQ ID NO: 30)
attB19	CAACTTTTTC GTACAAAGTT GT	(SEQ ID NO: 31)
attP19	GTTCAACTTT TTCGTACAAA GTTGGCA	(SEQ ID NO: 32)
attL19	CAACTTTTTC GTACAAAGTT GGCA	(SEQ ID NO: 33)
attR19	GTTCAACTTT TTCGTACAAA GTTGT	(SEQ ID NO: 34)
attB20	CAACTTTTTG GTACAAAGTT GT	(SEQ ID NO: 35)
attP20	GTTCAACTTT TTGGTACAAA GTTGGCA	(SEQ ID NO: 36)
attL20	CAACTTTTTG GTACAAAGTT GGCA	(SEQ ID NO: 37)
attR20	GTTCAACTTT TTGGTACAAA GTTGT	(SEQ ID NO: 38)
attB21	CAACTTTTTA ATACAAAGTT GT	(SEQ ID NO: 39)
attP21	GTTCAACTTT TTAATACAAA GTTGGCA	(SEQ ID NO: 40)
attL21	CAACTTTTTA ATACAAAGTT GGCA	(SEQ ID NO: 41)
attR21	GTTCAACTTT TTAATACAAA GTTGT	(SEQ ID NO: 42)

Please amend paragraph **[0224]** as follows:

[0224] The att system core integrase binding site comprises an interrupted seven base pair inverted repeat having the following nucleotide sequence:

------>.......<------

caactttnnnnnnnaaagttg (SEQ ID NO: 43 ~~39~~),

as well as variations thereof which can comprise either perfect or imperfect repeats.

Please amend paragraph **[0227]** as follows:

[0227] For example, it is believed that an attB site altered to have the following nucleotide sequence:

------>.......<------

caactttnnnnnnnaaacaag (SEQ ID NO: 44 ~~40~~),

will functionally interact with a cognate attP and generate attL and attR. However, whichever of the latter two recombination sites acquires the segment containing "caag" (located on the left side of the sequence shown above) will be rendered non-functional to subsequent recombination events. The above is only one of many possible alterations in the core integrase binding sequence which can render att sites non-functional after engaging in a single recombination event. Thus, single use recombination sites may be prepared by altering nucleotides in the seven base pair inverted repeat regions which abut seven base pair overlap regions of att sites. This region is represented schematically as:

CAAC TTT [Seven Base Pair Overlap Region] AAA GTTG.

Please amend paragraph **[0228]** as follows:

[0228] In generating single use recombination sites, one, two, three, four or more of nucleotides of the sequences CAACTTT (SEQ ID NO: 161) or AAAGTTG (SEQ ID NO: 162) (*i.e.*, the seven base pair inverted repeat regions) may be substituted with other nucleotides or deleted altogether. These seven base pair inverted repeat regions represent complementary sequences with respect to each other. Thus, alterations may be made in either seven base pair inverted repeat region in order to generate single use recombination sites. Further, when DNA is double stranded and one seven base pair inverted repeat region is present, the other seven base pair inverted repeat region will also be present on the other strand.

Please amend paragraph **[0229]** as follows:

[0229] Using the sequence CAACTTT (SEQ ID NO: 161) for illustration, examples of seven base pair inverted repeat regions which can form single use recombination sites include, but are not limited to, nucleic acid molecules in which (1) the cytosine at position 1 of the seven base pair inverted repeat region has been deleted or substituted with a guanine, adenine, or thymine; (2) the adenine at position 2 of the seven base pair inverted repeat region has been deleted or substituted with a guanine, cytosine, or thymine; (3) the adenine at position 3 of the seven base pair inverted repeat region has been deleted or substituted with a guanine, cytosine, or thymine; (4) the cytosine at position 4 of the seven base pair inverted repeat region has been deleted or substituted with a guanine, adenine, or thymine; (5) the thymine at position 5 of the seven base

pair inverted repeat region has been deleted or substituted with a guanine, cytosine, or adenine; (6) the thymine at position 6 of the seven base pair inverted repeat region has been deleted or substituted with a guanine, cytosine, or adenine; and (7) the thymine at position 7 of the seven base pair inverted repeat region has been deleted or substituted with a guanine, cytosine, or adenine; or any combination of one, two, three, four, or more such deletions and/or substitutions within this seven base pair region. Representative examples of nucleotide sequences of the above described seven base pair inverted repeat regions are set out below in Table 4.

Please amend paragraph **[0256]** as follows:

[0256] Type IA topoisomerases include *E. coli* topoisomerase I, *E. coli* topoisomerase III, eukaryotic topoisomerase II, archeal reverse gyrase, yeast topoisomerase III, Drosophila topoisomerase III, human topoisomerase III, Streptococcus pneumoniae topoisomerase III, and the like, including other type IA topoisomerases (see Berger, *Biochim. Biophys. Acta 1400*:3-18, 1998; DiGate and Marians, *J. Biol. Chem. 264*:17924-17930, 1989; Kim and Wang, *J. Biol. Chem. 267*:17178-17185, 1992; Wilson, *et al.*, *J. Biol. Chem. 275*:1533-1540, 2000; Hanai, *et al.*, *Proc. Natl. Acad. Sci., USA 93*:3653-3657, 1996, U.S. Pat. No. 6,277,620, each of which is incorporated herein by reference). *E. coli* topoisomerase III, which is a type IA topoisomerase that recognizes, binds to and cleaves the sequence 5'-GCAACTT-3' (SEQ ID NO: 156), can be particularly useful in a method of the invention (Zhang, *et al.*, *J. Biol. Chem. 270*:23700-23705, 1995, which is incorporated herein by reference). A homolog, the traE protein of plasmid RP4, has been described by Li, *et al.*, *J. Biol. Chem. 272*:19582-19587 (1997) and can also be used in the practice of the invention. A DNA-protein adduct is formed with the enzyme covalently binding to the 5'-thymidine residue, with cleavage occurring between the two thymidine residues.

Please amend paragraph **[0358]** as follows:

[0358] Fig. 6 is a plasmid map of the pAd/CMV/V5-DEST vector, one example of a nucleic acid comprising all or a portion of a viral genome according to the present invention. The nucleotide sequence of the plasmid is provided in Table 6 (SEQ ID NO: 83). The plasmid contains the first 458 nucleotides of Ad5, including the left ITR and packaging sequence, followed the cytomegalovirus promoter (CMV) and the T7 promoter. The promoters are followed by a sequence containing selectable markers flanked by recombination sites attR1 and

attR2. Any other suitable pair of recombination sites might be employed as long as they are selected so as not to recombine with each other. After the attR2 site, the V5 epitope coding sequence is followed by stop codons in all three reading frames and the herpes virus thymidine kinase polyadenylation signal. This is followed by the nucleotides from position 3513 to the right end of the adenoviral genome including the right ITR. After the adenoviral sequences, are plasmid sequences including a plasmid origin of replication followed by the ampicillin resistance gene. The plasmid sequences are flanked by PacI restriction enzyme recognition sites. Thus, after replacement of the replaceable sequence with a sequence of interest flanked by attL1 and attL2 in a recombination reaction, an infectious viral genome can be prepared by digestion of the recombination reaction product with PacI to remove the plasmid sequences. In this particular embodiment, the viral genome is an adenoviral genome deleted in the E1 and E3 regions. The E1 function must be supplied *in trans* in order for the virus to replicate, for example, from the host cell as in 293 cells. The gene products of the E3 region are not required for replication.

Please amend paragraph **[0374]** as follows:

[0374] A recombinant adenoviral vector was constructed that expresses a suppressor tRNA. A map of a plasmid containing the adenoviral construct pAd-GW-TO/tRNA in which a suppressor tRNA is under the control of a tetracycline-inducible CMV promoter is shown in Fig. 7. The nucleotide sequence of pAd-GW-TO/tRNA is provided in Table 7 (SEQ ID NO: 84). An additional adenoviral construct expressing a suppressor tRNA is pAdenoTAG tRNA shown in Fig. 8. The nucleotide sequence of pAdenoTAG tRNA is provided in Table 8 (SEQ ID NO: 85). Table 9 (SEQ ID NO: 86) provides the nucleotide sequence of a Sau3A fragment that may be used to construct suppressor tRNA containing nucleic acid molecules of the invention (*e.g.*, pAdenoTag tRNA.) A transcription terminator is located at bases 600 to 606 of the fragment, the sequence corresponding to the suppressor tRNA is located at bases 512 to 593 of the fragment, the anti-codon is located at bases 545 to 547, and the tetracycline operator sequence is located at bases 474 to 511. The suppressor tRNA produced from this sequence suppresses the amber stop codon UAG. Those skilled in the art will appreciated that it is possible to prepare suppressors for opal and ochre stop codons by mutating the bases in the anti-codon to make the anti-codon the reverse complement of the stop codon. *i.e.*, TCA for the opal stop codon and TTA for the ochre stop codon. Other anti-codons may be used, for example, those employing

other bases in the wobble position. Constructing a suitable sequence from which to produce a desired suppressor tRNA (*e.g.*, by introducing one or more point mutations in a sequence) is routine in the art.

Please amend paragraph **[0378]** as follows:

[0378] A plasmid map of pAd/PL-DEST™ is provided in Figure 9 and the sequence of the plasmid is provided in Table 10 (SEQ ID NO: 87).

Please amend paragraph **[0379]** as follows:

[0379] A kit may also comprise one or more control reagents. For example, a kit may comprise an adenoviral vector comprising a detectable marker that may be used as a control for transfection of cells and infection of cells. One suitable control reagent is pAd/CMV/V5-GW/*lacZ* control. A map of the pAd/CMV/V5-GW/*lacZ* plasmid is provide as Fig. 10 and the nucleotide sequence of the plasmid is provided as Table 11 (SEQ ID NO: 88).

Please amend paragraph **[0384]** as follows:

[0384] The pAd/CMV/V5-DEST™ vector (36686 bp, SEQ ID NO: 83) contains the following features.

Please amend paragraph **[0384]** as follows:

[0384] The pAd/PL-DEST™ vector (34864 bp, SEQ ID NO: 87) contains the following features.

Please amend paragraph **[0387]** as follows:

[0387] The plasmid, pAd/CMV/V5-GW/*lacZ*, is included and may be used as a positive expression control in the mammalian cell line of choice. pAd/CMV/V5-GW/*lacZ* (Fig. 10) is a 37567 bp vector (SEQ ID NO: 88) expressing β-galactosidase, and was generated using the GATEWAY™ LR recombination reaction between an entry clone containing the *lacZ* gene and pAd/CMV/V5-DEST™. β-galactosidase is expressed as a C-terminal V5 fusion polypeptide with a molecular weight of approximately 120 kDa.

Please amend paragraph **[0394]** as follows:

[0394] pAd/CMV/V5-DEST™ is a C-terminal fusion vector; however, this vector may be used to express native polypeptides or C-terminal fusion polypeptides. A sequence of interest encoding a polypeptide of interest must contain an ATG initiation codon in the context of a Kozak consensus sequence for proper initiation of translation in mammalian cells (Kozak, M. (1987). Nucleic Acids Res. 15, 8125-8148. Kozak, M. (1991). J. Cell Biology 115, 887-903. Kozak, M. (1990). Proc. Natl. Acad. Sci. USA 87, 8301-8305.). An example of a Kozak consensus sequence is **(G/A)**NNATG**G** (SEQ ID NO: 159). The ATG initiation codon is underlined. Note that other sequences are possible, but the G or A at position –3 and the G at position +4 are the most critical for function (shown in bold).

Please amend paragraph **[0400]** as follows:

[0400] To confirm that a sequence of interest is in the correct orientation and in frame with a fusion tag (if present), an expression construct may be sequenced. The following primer binding may be used to sequence an expression construct. Refer to the Figs. 8 and 9 for the location of the primer binding sites. The pAd/CMV/V5-DEST™ vector contains the T7 promoter/priming site 5′-TAATACGACTCACTATAGGG-3′ (SEQ ID NO: 45) and the V5 (C-term) reverse priming site 5′-ACCGAGGAGAGGGTTAGGGAT-3′ (SEQ ID NO: 46). The pAd/PL-DEST™ vector contains the pAd forward priming site 5′GACTTTGACCGTTTACGTGGAGAC-3′ (SEQ ID NO: 47) and the pAd reverse priming site 5′-CCTTAAGCCACGCCCACACATTTC-3′ (SEQ ID NO: 48).

Please amend paragraph **[0493]** as follows:

[0493] Nucleic acid molecules of the invention may be used to express a polypeptide of interest as part of a fusion polypeptide. Numerous suitable fusion partners are known to those in the art. For example a polypeptide of interest may be expressed as a fusion polypeptide containing the V5 epitope. Antibodies to detect the V5 epitope, a 14 amino acid epitope derived from the P and V proteins of the paramyxovirus, SV5 having the sequence GKPIPNPLLGLDST (SEQ ID NO: 49) (Southern, J.A., *et al., J. Gen. Virol. 72*:1551-1557 (1991)) are commercially available from Invitrogen Corporation, Carlsbad, CA, for example, Anti-V5 Antibody catalog no. R960-25, Anti-V5-HRP Antibody catalog no. R961-25, and catalog no. Anti-V5-AP Antibody R962-

25. A polypeptide of interest may be expressed as a fusion polypeptide with a polyhistidine sequence. Antibodies to detect a polyhistidine sequence are commercially available from Invitrogen Corporation, Carlsbad, CA. For example, Anti-His(C-term) Antibody catalog no. R930-25, Anti-His(C-term)-HRP Antibody catalog no. R931-25, and Anti-His(C-term)-AP Antibody R932-25, all of which detect a C-terminal polyhistidine (6xHis) tag and require the free carboxyl group for detection (*i.e.*, detect the sequence HHHHHH-COOH (SEQ ID NO: 165), see Lindner, P., *et al., BioTechniques 22*:140-149 (1997)).

Please amend paragraph **[0493]** as follows:

[0493] pIB/V5-His-DEST contains the following features:

A map of pIB/V5-His-DEST is provided in Figure 15 and the nucleotide sequence of the vector is provided in Table 12 (SEQ ID NO: 89).

Please amend paragraph **[0498]** as follows:

[0498] Baculovirus immediate-early promoters utilize the host cell transcription machinery and do not require viral factors for activation. The *OpIE2* promoter is from the baculovirus *Orgyia pseudotsugata* multicapsid nuclear polyhedrosis virus (*Op*MNPV) and drives constitutive expression of the gene of interest in pIB/V5-His-DEST. The virus' natural host is the Douglas fir tussock moth; however, the promoter allows protein expression in *Lymantria dispar* (LD652Y), *Spodoptera frugiperda* cells (Sf9) (Hegedus, D.D., *et al., Gene 207*:241-249 (1998); Pfeifer, T.A., *et al., Gene 188*:183-190 (1997)), *Sf*21 (Invitrogen), *Trichoplusia ni* (High Five™, Invitrogen Corporation, Carlsbad, CA), *Drosophila* (Kc1, S2) (Hegedus, D.D., *et al., Gene 207*:241-249 (1998); Pfeifer, T.A., *et al., Gene 188*:183-190 (1997)) and mosquito cell lines. The *OpIE2* promoter has been sequenced and analyzed. The sequence of the promoter is provided in Figure 16 (SEQ ID NO: 126).

Please amend paragraph **[0500]** as follows:

[0500] The OpIE2 promoter has been analyzed by deletion analysis using a CAT reporter in both *Lymantria dispar* (LD652Y) and *Spodoptera frugiperda* (Sf9) cells. Expression in *Sf9* cells was much higher than in LD652Y cells. Deletion analysis revealed that sequence up to -275 base pairs from the start of transcription is necessary for maximal expression (Theilmann, D.A., and Stewart, S., *Virology 187*:84-96 (1992)). Additional sequence beyond -275 may broaden the

host range expression of this plasmid to other insect cell lines In addition, an 18 bp element appears to be required for expression. This 18 bp element is repeated almost completely in three different locations and partially at six other locations. These are marked in Fig. 16 (SEQ ID NO: 126). Elimination of the three major 18 bp elements reduces expression to basal levels (Theilmann, D.A., and Stewart, S., *Virology 187*:84-96 (1992)). Primer extension experiments revealed that transcription initiates equally from either the C or the A indicated. These two transcriptional start sites are adjacent to a CAGT sequence motif that has been shown to be conserved in a number of early genes (Blissard, G.W., and Rohrmann, G.F., Virology 170:537-555 (1989)).

Please amend paragraph **[0506]** as follows:

[0506] A sequence of interest may contain a Kozak consensus sequence with an ATG initiation codon for proper initiation of translation (Kozak, M., *Nucleic Acids Res. 15*:8125-8148 (1987); Kozak, M., *J. Cell Biology 115*:887-903 (1991); Kozak, M., *Proc. Natl. Acad. Sci. USA 87*:8301-8305 (1990)). An example of a Kozak consensus sequence is provided below. Other sequences are possible, but the G or A at position -3 and the G at position +4 are the most critical for function (shown in bold). The ATG initiation codon is shown underlined.

(G/A)NNATG**G** (SEQ ID NO: 159)

Please amend paragraph **[0511]** as follows:

[0511] The recombination region of the expression clone resulting from pIB/V5-His-DEST × entry clone is shown in Fig. 17 (SEQ ID NO: 149). Shaded regions correspond to those DNA sequences transferred from the entry clone into pIB/V5-His-DEST by recombination. Non-shaded regions are derived from the pIB/V5-His-DEST vector. The underlined nucleotides flanking the shaded region correspond to bases 609 and 2292, respectively, of the pIB/V5-His-DEST vector sequence.

Please amend paragraph **[0512]** as follows:

[0512] To confirm that a coding sequence on the sequence of interest is in frame with the C-terminal V5 epitope and polyhistidine tag, the expression construct may be sequenced, for

example, using the OpIE2 Forward and Reverse primer sequences. Refer to Fig. 17 (SEQ ID NO: 149) for the sequence and location of the primer binding sites.

Please amend paragraph **[0564]** as follows:

[0564] A baculovirus genome containing a recombination cassette (DEST) bounded by attR recombination sites compatible with GATEWAY™ entry vectors (Invitrogen Corporation, Carlsbad, CA) was constructed. Two transposition cassettes were constructed one with and one without the mellitin leader sequence. A schematic representation of the cassette without the mellitin sequence is provided in Fig. 19A and the sequence is provided in Table 13 (SEQ ID NO: 90). A schematic representation of the cassette with the mellitin sequence is provided in Fig. 19B and the sequence is provided in Table 14 (SEQ ID NO: 91). The DEST cassettes contain the HSV thymidine kinase (TK) gene driven by an immediate early promoter (IE-0 promoter) and the lacZ gene driven by a late promoter (P10 promoter). The genes permit identification of non-recombinant virus using a blue white screening protocol and selection against non-recombinant viruses using ganciclovir. The cassettes also contain the V5 epitope and a 6-Histidine sequence outside the *att*R2 recombination site. The sequence of the cassette contains a recognition site for the restriction enzyme *Bsu36*I (and its isoschizomer *Aoc*I) that is used to linearize the viral genome.

Please amend paragraph **[0572]** as follows:

[0572] In some embodiments, the promoters are tightly regulated. For example, in some embodiments, the promoters are not active unless one or more transactivators are present. In some embodiments, the nucleic acid sequences that function as promoters include, but are not limited to, the AcMNPV ORF 25 promoter sequence (SEQ ID NO: 98), the AcMNPV lef 3 promoter sequence (SEQ ID NO: 99), the AcMNPV TLP promoter sequence (SEQ ID NO: 100), the AcMNPV homologous repeat 5 sequence (SEQ ID NO: 101), other baculovirus homologous repeat sequences, and the like. The nucleic acid sequences of the AcMNPV ORF 25 promoter sequence (SEQ ID NO: 98), the AcMNPV lef 3 promoter sequence (SEQ ID NO: 99), the AcMNPV TLP promoter sequence (SEQ ID NO: 100), and the AcMNPV homologous repeat 5 sequence (SEQ ID NO: 101) are provided in Table 15 (SEQ ID NOS: 98-101).

Please amend paragraph **[0573]** as follows:

[0573] In some embodiments, the promoters discussed above are not active unless one or more transactivators are present. One suitable transactivator is the baculoviral IE-1 protein. The IE-1 promoter sequence (SEQ ID NO: 102), coding sequence (SEQ ID NO: 103), and polypeptide sequence (SEQ ID NO: 104) are provided in Table 16 (SEQ ID NOS: 102-104). The transactivator may be provided on the same nucleic acid molecule comprising the promoter sequence or on another nucleic acid molecule (*e.g.*, plasmid, virus, host cell genome, etc.). In some embodiments, the promoter sequence operably linked to a sequence of interest may be on one nucleic acid molecule (*e.g.* a plasmid) and the transactivator sequence may be on a different nucleic acid molecule (*e.g.*, a virus such as a baculovirus). The nucleic acid molecule comprising the promoter sequence operably linked to a sequence of interest may be introduced into a host cell, for example, by transfection. The sequence of interest is not expressed or is substantially not expressed in the absence of a transactivator. In some embodiments, the host cell may be a eukaryotic cell, for example, a mammalian cell or an insect cell. The host cell comprising the nucleic acid molecule comprising the promoter sequence operably linked to a sequence of interest may be further contacted with a second nucleic acid molecule comprising the a sequence encoding the transactivator. Upon expression of the transactivator, the sequence of interest is expressed. In some embodiments, the transactivator polypeptide may be directly transfected into cells comprising the nucleic acid molecule comprising the promoter sequence operably linked to a sequence of interest. Such transactivator polypeptides may be present as native polypeptides or as fusion polypeptides, for example, as fusions with the herpesvirus VP22 polypeptide.

Please amend paragraph **[0576]** as follows:

[0576] The sequences provided in Table 15 (SEQ ID NOS: 98-101) are capable of functioning as conditionally activated promoters. The present invention also comprises portions of the sequences of Table 15 (SEQ ID NOS: 98-101) that function as conditionally active promoters. Such promoters may be activated by the IE-1 polypeptide. Such portions may comprise at least 50%, 60%, 70%, 80%, 90%, 95%, or more of one or more of the sequences in Table 15 (SEQ ID NOS: 98-101).

Please amend paragraph **[0578]** as follows:

[0578] The OpIE-1 promoter was replaced with long or short versions of AcMNPVgp64 or pe38 promoters, using a Topoisomerase I mediated ligation strategy (Fig. 21). The AcMNPV gp64 and pe38 promoters were amplified from cosmid #58 (comprising AcMNPV bases 99803-132856 from a cosmid library of the AcMNPV genome, Harwood *et al.* Virology. 250:113-134, 1998) with promoter-specific primers that were appended at their 5' ends with antisense TOPO sites and six additional bases (Fig. 21). pIB/V5-His was amplified with primers that included an anti-sense topoisomerase site and a six base sequence that becomes an overhang following topoisomerase binding. Each promoter (gp64s is illustrated) was amplified with similarly designed primers. Following binding, the overhangs annealed and were ligated by the enzyme. The oligonucleotide sequences are given below. The antisense topoisomerase sites are underlined.

17852 pIB Neg For TGAGTC<u>AAGGG</u>CTGCCGGGCTGCAGCACTG <u>(SEQ ID NO: 51)</u>
17853 pIB Neg Rev CGGAAC<u>AAGGG</u>CATGACCAAAATCCCTTAACG <u>(SEQ ID NO: 52)</u>
17849 gp64 For GACTCA<u>AAGGG</u>CTTGCTTGTGTGTTCCTTATTG <u>(SEQ ID NO: 53)</u>
17850 gp64s Rev GTTCCG<u>AAGGG</u>TTGTGTCACGTAGGCCAGATAAC <u>(SEQ ID NO: 54)</u>
17851 gp64L Rev GTTCCG<u>AAGGG</u>AATAATCGATTTAAGGGTGTAATACTC <u>(SEQ ID NO: 55)</u>
17857 pe38 For GACTCA<u>AAGGG</u>TTTGCTTATTGGCAGGCTCTCC <u>(SEQ ID NO: 56)</u>
17858 pe38s Rev GTTCCG<u>AAGGG</u>TATCTGTCCCCCACTCAGGC <u>(SEQ ID NO: 57)</u>
17859 pe38L Rev GTTCCG<u>AAGGG</u>TAAAGTTGATGCGGCGACGGC <u>(SEQ ID NO: 58)</u>

Please amend paragraph **[0598]** as follows:

[0598] The plasmid pVL1393 GST p10 stop (Fig. 34) was digested with *Bam*HI and *Nco*I. A 15 kb band was purified (removing the GST tag) to which was ligated, a double stranded oligonucleotide containing the melittin signal flanked by *Bam*H1 and *Nco*I overhangs. The ligated products were transformed into TOP10 bacteria and the correct clones verified by restriction digestion and sequencing. This plasmid (pVL1393 Mel Stop) contained a stop codon downstream of the *att*R2 site that had to be removed by PCR directed site-specific mutagenesis. Primers *Eco*RI sense (GA*ATT*CCAGCTGAGCGCCGGTCGCTAC <u>SEQ ID NO: 59</u>) and *Bgl*II antisense (AGATCTTC*ATT*C*ATT*CTCACCACTTTGTACAAG <u>SEQ ID NO: 60</u>) were used to

amplify a fragment from pVL1393 Mel Stop, and the resulting 209 bp fragment was cut with *Eco*RI and *Bgl*II, and then ligated to pVL1393 Mel Stop cut with the same enzymes. The correct clone was identified by restriction digestion and sequence analysis. This gave pVL1393 Mel no-Stop.

Please amend paragraph **[0599]** as follows:

[0599] Next, a V5-His tag was added downstream of the *att*R2 site. The V5/His sequence was amplified from pIND/V5-His-TOPO (catalog no. K101001, Invitrogen Corporation, Carlsbad, CA) with primers containing *Bgl*II sites at each 5' end (V5/His 5': AGATCTGGGGAAGCCTATCCCTAACCC <u>SEQ ID NO: 61</u>; V5/His 3': AGATCTTCAATGGTGATGGTGATGATGACCGG <u>SEQ ID NO: 62</u>). The amplicon was cloned into pCR2.1 TOPO TA and then removed by *Bgl*II digestion and ligated to pVL1393 Mel no-Stop cut with *Bgl*II. The correct clones were identified and verified by sequencing. This resulted in plasmid pVL1393 Mel/V5-His. The melittin signal was subsequently removed by replacing the melittin-*att*R1 sequence from pVL1393 Mel/V5-His with the *att*R1 sequence from pVL1393-Native, using *Not*I and *Bam*HI. The correct plasmid clones were verified by sequencing and dubbed pVL1393 V5/His. Fig. 27 shows a schematic of the strategy for construction of BaculoDirect™ DNA. In Fig. 27A, the GATEWAY™ counter selection cassette was cloned in the polyhedrin locus of wt AcMPNV by homologous recombination between with pVL1393 V5-His. The resulting virus DNA contains the counter selection cassette bounded by *att*R sites, immediately downstream of the polyhedrin promoter and upstream of the V5/His tag. In Fig. 27B, LR recombination between BaculoDirect™ DNA and an entry clone results in an expression virus in which the counter selection cassette is replaced by gene of interest.

Please amend paragraph **[0626]** as follows:

[0626] The present invention permits one skilled in the art to create replication-incompetent lentiviruses to deliver and express one or more sequences of interest (*e.g.*, genes). These viruses (based loosely on HIV-1) can effectively transduce dividing and non-dividing mammalian cells (in culture or *in vivo*), thus broadening the possible applications beyond those of traditional Moloney (MLV)-based retroviral systems (Clontech, Stratagene, etc.). Directional TOPO and GATEWAY™ lentiviral vectors have been created to clone one or more genes of interest with a V5 epitope, if desired. The vectors also carry the blasticidin resistance gene (bsd) to allow for

the selection of transduced cells. Without additional modifications, these vectors can theoretically accommodate up to ~6 kb of foreign gene. Three supercoiled packaging plasmids (gag/pol, rev and VSV-G envelope) are provided to supply helper functions and viral proteins in *trans*. Finally, an optimized producer cell line (293FT) is provided that will facilitate production of high titer virus. A schematic representation of the production of a nucleic acid molecule comprising all or a portion of a lentiviral genome is shown in Figure 35. Plasmid maps of vectors adapted for use with GATEWAY™ and topoisomerase cloning in the production of nucleic acid molecules comprising all or a portion of a lentiviral genome are shown in Figures 36A (pLenti6/V5-DEST), 36B (pLenti6/V5-D-TOPO®), 36C (pLenti4/V5-DEST), and 36D (pLenti6/UbC/V5-DEST) respectively. The nucleotide sequences of the plasmids are provided in Tables 17-20 <u>(SEQ ID NOS: 105-108, respectively)</u>. Plasmid maps of the three packaging plasmids pLP1, pLP2, and pLP/VSVG are shown in Figures 37A, 37B, and 37C respectively and the nucleotide sequences of these plasmids are provided as Tables 21 <u>(SEQ ID NO: 109)</u>, 22 <u>(SEQ ID NO: 110)</u>, and 23 <u>(SEQ ID NO: 111)</u>, respectively.

Please amend paragraph **[0634]** as follows:

[0634] The oligonucleotides used for directional adaptation are listed below:

EcoRI (5' end): Non-regenerative site

Topo-D1 5' P-AATTGAT<u>CCCTT</u>CACCGACATAGTACAG 3' <u>(SEQ ID NO: 63)</u>

Topo-D2 5' P-GGTG<u>AAGGG</u>ATC 3' <u>(SEQ ID NO: 64)</u>

XhoI (3' end): Regenerative site

Topo-D6 5' P-TCGAG<u>CCCTT</u>GACATAGTACAG 3' <u>(SEQ ID NO: 65)</u>

Topo-D7* 5' P-<u>AAGGG</u>C 3' <u>(SEQ ID NO: 66)</u>

Please amend paragraph **[0776]** as follows:

[0776] Table 26 provides some of the characteristics of the vector pLP2. The complete sequence is provided as Table 22 <u>(SEQ ID NO: 110)</u>. A plasmid map is provided as Figure 37B.

Please amend paragraph **[0777]** as follows:

[0777] Table 27 provides some of the characteristics of the vector pLP/VSVG. The complete sequence is provided as Table 23 <u>(SEQ ID NO: 111)</u>. A plasmid map is provided as Figure 37C.

Please amend paragraph **[0781]** as follows:

[0781] pLenti6/V5-DEST™ is an 8.7 kb vector adapted for use with the GATEWAY™ Technology, and is designed to allow high-level expression of recombinant fusion proteins in dividing and non-dividing mammalian cells using Invitrogen's ViraPower™ Lentiviral Expression System. A map of the vector is provided as Figure 36A and the sequence of the vector is provided as Table 17 (SEQ ID NO: 105).

Please amend paragraph **[0784]** as follows:

[0784] The pLenti4/V5-DEST and pLenti6/V5-DEST vectors use the human CMV immediate early promoter to allow high-level, constitutive expression of the gene of interest in mammalian cells(Andersson *et al.*, 1989; Boshart *et al.*, 1985; Nelson *et al.*, 1987). The sequence of the pLenti4/V5-DEST plasmid is provided as Table 19 (SEQ ID NO: 107). Although highly active in most mammalian cell lines, activity of the viral CMV promoter can be down-regulated in some cell lines due to methylation(Curradi *et al.*, 2002, *Mol. Cell. Biol. 22*, 3157-3173), histone deacetylation (Rietveld *et al.*, 2002, *EMBO J. 21*, 1389-1397), or both.

Please amend paragraph **[0785]** as follows:

[0785] The pLenti6/UbC/V5-DEST vector uses the human UbC promoter to allow constitutive, but more physiological levels of expression from the gene of interest in mammalian cells (Marinovic *et al.*, 2000, *Biophys. Res. Comm. 274*, 537-541). The sequence of the pLenti6/UbC/V5-DEST plasmid is provided as Table 20 (SEQ ID NO: 108). When compared to the CMV promoter, the UbC promoter is generally 2-4 fold less active. The UbC promoter is not down-regulated, making it useful for transgenic studies (Gill *et al.*, 2001, *Gene Ther. 8*, 1539-1546; Lois *et al.*, 2002, *Science 295*, 868-872; Marinovic *et al.*, 2000; Schorpp *et al.*, 1996, *Nuc. Acids Res. 24*, 1787-1788; Yew *et al.*, 2001, *Mol. Ther. 4*, 75-82). The human ubiquitin C (UbC) promoter (in pLenti6/UbC/V5-DEST) allows high-level expression of recombinant protein is most mammalian cell lines (Wulff *et al.*, 1990, *FEBS Lett. 261*, 101-105) and in virtually all tissues tested in transgenic mice (Schorpp *et al.*, 1996). The diagram below shows the features of the UbC promoter as described by Nenoi *et al.*, 1996*Gene 175*, 179-185.

Please amend paragraph **[0791]** as follows:

[0791] pLenti4/V5-DEST, pLenti6/V5-DEST, and pLenti6/UbC/V5-DEST are C-terminal fusion vectors. To express a fusion polypeptide of a polypeptide encoded by a sequence of interest with the V5 epitope coding sequence present in the vector, a sequence of interest must contain an ATG initiation codon in the context of a Kozak translation initiation sequence for proper initiation of translation in mammalian cells (Kozak, 1987; Kozak, 1991; Kozak, 1990). An example of a Kozak consensus sequence is **(G/A)**NNATG**G** (SEQ ID NO: 159). Other sequences are possible, but the G or A at position –3 and the G at position +4 are the most critical for function (shown in bold). The ATG initiation codon is underlined. The reading frame of the polypeptide encoded by the sequence of interest must be in frame with the C-terminal tag containing the V5 epitope after recombination and the sequence of interest must not contain a stop codon in this reading frame. The C-terminal peptide containing the V5 epitope and the attB2 site will add approximately 4.5 kDa to the size of the polypeptide encoded by the sequence of interest.

Please amend paragraph **[0796]** as follows:

[0796] Figure 46A (SEQ ID NO: 150) provides a diagram of the recombination region of pLenti6/V5-DEST™ or pLenti4/V5-DEST after a recombination reaction with a sequence of interest. Shaded regions correspond to the sequence of interest transferred from the entry clone into the pLenti6/V5-DEST™ vector by recombination. Non-shaded regions are derived from the pLenti6/V5-DEST™ or pLenti4/V5-DEST vector. Bases 2448 and 4130 of the pLenti4/V5-DEST and pLenti6/V5-DEST™ sequences are marked. Restrictions sites are labeled to indicate the actual cleavage site.

Please amend paragraph **[0797]** as follows:

[0797] Figure 46B (SEQ ID NO: 151) shows the recombination region of the expression clone resulting from pLenti6/UbC/V5-DEST x entry clone. Note that this diagram does not contain the complete sequence of the UbC promoter. For a diagram of the UbC promoter see Figures 46C and 46D (SEQ ID NO: 136). Shaded regions in Figure 46B correspond to those DNA sequences transferred from the entry clone into the pLenti6/UbC/V5-DEST vector by recombination. Non-shaded regions are derived from the pLenti6/UbC/V5-DEST vector. Bases 3079 and 4762 of the pLenti6/UbC/V5-DEST sequence are marked.

Please amend paragraph **[0799]** as follows:

[0799] To confirm that a gene of interest is in frame with the C-terminal tag, sequence the expression construct, if desired. Refer to Figure 46 for the location of the recommended primer binding sites (CMV or UbC forward priming site and V5(C-term) reverse priming site) to use to sequence the expression construct. To sequence a pLenti4/V5-DEST or pLenti6/V5-DEST construct,

the CMV forward primer 5′-CGCAAATGGGCGGTAGGCGTG-3′ <u>(SEQ ID NO: 66)</u> and V5(C-term) reverse primer 5′-ACCGAGGAGAGGGTTAGGGAT-3′ <u>(SEQ ID NO: 67)</u> can be used. To sequence a pLenti6/UbC/V5-DEST construct,

the UB forward primer 5′-TCAGTGTTAGACTAGTAAATTG-3′ <u>(SEQ ID NO: 68)</u> and the V5(C-term) reverse primer 5′-ACCGAGGAGAGGGTTAGGGAT-3′ <u>(SEQ ID NO: 69)</u> can be used.

Please amend paragraph **[0802]** as follows:

[0802] The pLenti6/V5-DEST™ vector (8688 bp<u>, SEQ ID NO: 105</u>) contains the following features at the indicated locations. The locations of the features in the pLenti6/V5-DEST plasmid are as follows: RSV/5' LTR hybrid promoter bases 1-410; RSV promoter bases 1-229; HIV-1 5' LTR bases 230-410; 5' splice donor base 520; HIV-1 psi (ψ) packaging signal bases 521-565; HIV-1 Rev response element (RRE) bases 1075-1308; 3' splice acceptor base 1656; 3' splice acceptor base 1684; CMV promoter bases 1809-2392; *att*R1 site: bases 2440-2564; Chloramphenicol resistance gene (Cm^R) bases 2673-3332; *ccd*B gene bases 3674-3979; *att*R2 site bases 4020-4144; V5 epitope bases 4197-4238; SV40 early promoter and origin bases 4293-4602; EM7 promoter bases 4657-4723; Blasticidin resistance gene bases 4724-5122; ΔU3/3' LTR bases 5208-5442; ΔU3 bases 5208-5261; 3' LTR: bases 5262-5442; SV40 polyadenylation signal bases 5514-5645; *bla* promoter bases 6504-6602; Ampicillin (*bla*) resistance gene bases 6603-7463; and pUC origin bases 7608-8281.

Please amend paragraph **[0803]** as follows:

[0803] The pLenti4/V5-DEST vector(8634 nucleotides, SEQ ID NO: 107) contains the following features at the indicated locations: RSV/5′ LTR hybrid promoter bases 1-410; RSV promoter bases 1-229; HIV-1 5′ LTR bases 230-410; 5′ splice donor base 520; HIV-1 psi (ψ) packaging signal bases 521-565; HIV-1 Rev response element (RRE) bases 1075-1308; 3′ splice acceptor base 1656; 3′ splice acceptor base 1684; CMV promoter bases 1809-2392; *att*R1 site bases 2440-2564; Chloramphenicol resistance gene (Cm^R) bases 2673-3332; *ccd*B gene bases 3674-3979; *att*R2 site bases 4020-4144; V5 epitope bases 4197-4238; SV40 early promoter and origin bases 4293-4602; EM7 promoter bases 4621-4687; Zeocin™ resistance gene bases 4688-5062; ΔU3/3′ LTR bases 5154-5388; ΔU3 bases 5154-5207; 3′ LTR bases 5208-5388; SV40 polyadenylation signal bases 5460-5591; *bla* promoter bases 6450-6548; Ampicillin (*bla*) resistance gene bases 6549-7409; and the pUC origin bases 7554-8227.

Please amend paragraph **[0804]** as follows:

[0804] The pLenti6/UbC/V5-DEST vector (9320 nucleotides, SEQ ID NO: 108) contains the following features at the indicated locations: RSV/5′ LTR hybrid promoter bases 1-410; RSV promoter bases 1-229; HIV-1 5′ LTR bases 230-410; 5′ splice donor base 520; HIV-1 psi (ψ) packaging signal bases 521-565; HIV-1 Rev response element (RRE) bases 1075-1308; 3′ splice acceptor base 1656; 3′ splice acceptor base 1684; UbC promoter bases 1798-3016; *att*R1 site bases 3072-3196; Chloramphenicol resistance gene (Cm^R) bases 3305-3964; *ccd*B gene bases 4306-4611; *att*R2 site bases 4652-4776; V5 epitope bases 4829-4870; SV40 early promoter and origin bases 4925-5234; EM7 promoter bases 5289-5355; Blasticidin resistance gene bases 5356-5754; ΔU3/3′ LTR bases 5840-6074; ΔU3 bases 5840-5893; 3′ LTR bases 5894-6074; SV40 polyadenylation signal bases 6146-6277; *bla* promoter bases 7136-7234; Ampicillin (*bla*) resistance gene bases 7235-8095; and the pUC origin bases 8240-8913.

Please amend paragraph **[0805]** as follows:

[0805] The following protocol may be used to clone a nucleic acid segment using topoisomerase. Other protocols known to those skilled in the art are also suitable. An example of another suitable protocol may be found in the pENTR Directional TOPO® Cloning Kit manual available from Invitrogen Corporation, Carlsbad, CA (catalog number 25-0434).

Step	Action
Design PCR Primers	Include the 4 base pair sequences (CACC, SEQ ID NO: 163) necessary for directional cloning on the 5′ end of the forward primer. Design the primers such that a gene of interest will be optimally expressed and fused in frame with the V5 epitope tag, if desired.

Please amend paragraph **[0809]** as follows:

[0809] The sequences of CMV Forward and V5(C-term) Reverse sequencing primers. Two micrograms of each primer are as follows:

CMV Forward 5′-CGCAAATGGGCGGTAGGCGTG-3′ (SEQ ID NO: 66)

V5(C-term) Reverse 5′-ACCGAGGAGAGGGTTAGGGAT-3′ (SEQ ID NO: 67)

Please amend paragraph **[0819]** as follows:

[0819] In this system, PCR products are directionally cloned by adding four bases to the forward primer (CACC, SEQ ID NO: 163). The overhang in the cloning vector (GTGG, SEQ ID NO: 164) invades the 5′ end of the PCR product, anneals to the added bases, and stabilizes the PCR product in the correct orientation. Inserts can be cloned in the correct orientation with efficiencies equal to or greater than 90%. A schematic representation of the process is shown in Figure 47 (SEQ ID NO: 137).

Please amend paragraph **[0821]** as follows:

[0821] When designing a forward PCR primer, consider the points below. Refer to Figure 48 (SEQ ID NO: 138) for a diagram of the TOPO® Cloning site for pLenti6/V5-D-TOPO®.

Please amend paragraph **[0822]** as follows:

[0822] To enable directional cloning, the forward PCR primer **MUST** contain the sequence, CACC (SEQ ID NO: 163), at the 5′ end of the primer. The 4 nucleotides, CACC (SEQ ID NO: 163), base pair with the overhang sequence, GTGG (SEQ ID NO: 164), in the pLenti6/V5-D-TOPO® vector.

Please amend paragraph **[0823]** as follows:

[0823] The sequence of interest should include a Kozak translation initiation sequence with an ATG initiation codon for proper initiation of translation (Kozak, 1987; Kozak, 1991; Kozak, 1990). An example of a Kozak consensus sequence is **(G/A)**NNATG**G** (SEQ ID NO: 159). Other sequences are possible, but the G or A at position –3 and the G at position +4 are the most critical for function (shown in bold). The ATG initiation codon is underlined.

Please amend paragraph **[0824]** as follows:

[0824] Below is the DNA sequence of the N-terminus of a theoretical protein and the proposed sequence for a forward PCR primer. The ATG initiation codon is underlined.

DNA sequence: 5′-ATG GGA TCT GAT AAA (SEQ ID NO: 69)

Proposed Forward PCR primer: 5′-C ACC ATG GGA TCT GAT AAA (SEQ ID NO: 70)

If the forward PCR primer is designed as above, then the primer includes the 4 nucleotides, CACC (SEQ ID NO: 163), required for directional cloning, and the ATG initiation codon falls within the context of a Kozak sequence (see boxed sequence), allowing proper translation initiation of the PCR product in mammalian cells. The first three base pairs of the PCR product following the 5′ CACC (SEQ ID NO: 163) overhang will constitute a functional codon.

Please amend paragraph **[0825]** as follows:

[0825] When designing a reverse PCR primer, consider the points below. Refer to Figure 48 (SEQ ID NO: 152) for a diagram of the TOPO® Cloning site for pLenti6/V5-D-TOPO®. To ensure that the PCR product clones directionally with high efficiency, the reverse PCR primer should not be complementary to the overhang sequence GTGG (SEQ ID NO: 164) at the 5′ end. A one base pair mismatch can reduce the directional cloning efficiency from 90% to 50%, increasing the likelihood of the PCR product cloning in the opposite orientation (see below). Evidence of PCR products cloning in the opposite orientation from a two base pair mismatch has not been observed.

Please amend paragraph **[0827]** as follows:

[0827] First Example of Reverse Primer Design. Below is the sequence of the C-terminus of a theoretical protein. The stop codon is underlined.

DNA sequence: AAG TCG GAG CAC TCG ACG ACG GTG <u>TAG</u>-3′ <u>(SEQ ID NO: 71)</u>

Please amend paragraph **[0828]** as follows:

[0828] To fuse the protein in frame with the C-terminal tag in pLenti6/V5-D-TOPO®, design the reverse PCR primer to start with the codon just up-stream of the stop codon, but the last two codons contain GTGG (<u>SEQ ID NO: 164,</u> underlined below), which is identical to the 4 bp overhang sequence. As a result, the reverse primer will be complementary to the 4 bp overhang sequence, increasing the probability that the PCR product will clone in the opposite orientation. This situation should be avoided.

DNA sequence: AAG TCG GAG CAC TCG ACG AC<u>G GTG</u> <u>TAG</u>-3′ <u>(SEQ ID NO: 71)</u>

Proposed Reverse PCR primer sequence: TG AGC TGC TG<u>C CAC</u> AAA-5′ <u>(SEQ ID NO: 160)</u>

Please amend paragraph **[0831]** as follows:

[0831] Below is the sequence for the C-terminus of a theoretical protein. The stop codon is underlined.

...GCG GTT AAG TCG GAG CAC TCG ACG ACT GCA <u>TAG</u>-3′ <u>(SEQ ID NO: 73)</u>

Please amend paragraph **[0832]** as follows:

[0832] To fuse the ORF in frame with the C-terminal tag in pLenti6/V5-D-TOPO®, remove the stop codon by starting with nucleotides homologous to the last codon (TGC) and continue upstream. The reverse primer will be:

5′-TGC AGT CGT CGA GTG CTC CGA CTT-3′ <u>(SEQ ID NO: 74)</u>

Please amend paragraph **[0833]** as follows:

[0833] This will amplify the C-terminus without the stop codon and allow the ORF to be joined in frame with the C-terminal tag. To avoid joining the ORF in frame with a C-terminal tag, design the reverse primer to include the stop codon.

5′-CTA TGC AGT CGT CGA GTG CTC CGA CTT-3′ (SEQ ID NO: 75)

Please amend paragraph **[0834]** as follows:

[0834] pLenti6/V5-D-TOPO® accepts blunt-end PCR products. Do not add 5′ phosphates to primers for PCR. This will prevent ligation into the pLenti6/V5-D-TOPO® vector. It is recommended that oligonucleotides be gel-purified, especially if they are long (> 30 nucleotides). Note that pLenti6/V5-D-TOPO® is supplied linearized with both ends adapted with topoisomerase I (see Figure 47, SEQ ID NO: 137). The sequence of pLenti6/V5-D-TOPO™ is provided as Table 18 (SEQ ID NO: 106).

Please amend paragraph **[0852]** as follows:

[0852] The sequence for pLenti6/V5-D-TOPO® shown in Table 18 (SEQ ID NO: 106) includes the overhang sequence (GTGG, SEQ ID NO: 164) hybridized to CACC (SEQ ID NO: 163).

Please amend paragraph **[0891]** as follows:

[0891] Vector construction. (a) pUC12-tRNA^{TAG} : Three suppressor tRNA vectors were received from Dr. Uttam RajBhandary of Massachusetts Institute of Technology. Each suppressor tRNA vector, designated pUCtS Su+ amber, opal, and ochre, is identical except for the stop anticodon (Capone *et. al.* 1985, *EMBO*, 4(1):213-221). For convenience, the pUCtS Su+ amber vector is now referred to as pUC12-tRNA^{TAG}. To create a tetracycline-regulated version, referred to herein as pUC12-TO-tRNA^{TAG}, two tetracycline operators ($tetO_2$) were cloned into the *SnaBI* site in pUC12-tRNA^{TAG} using the following annealed oligonucleotides:
$tetO_2$ Forward primer
5' GACTCGAGTCTCCCTATCAGTGATAG*AGATCT*CGAGGTC 3' (SEQ ID NO: 76) and
$tetO_2$ Reverse primer
5'GACCTCG*AGATCT*CTATCACTGATAGGGAGACTCGAGTC3' (SEQ ID NO: 77).

In italics is a unique *BglII* site that was introduced with the oligonucleotide. The underlined sequences are *XhoI* sites. All tRNA constructs were sequence verified.

(b) pcDNA6.2/GFP-DEST: pcDNA6.2/V5-DEST was digested with *ApaI* and *PmeI* to remove the V5 tag. pcDNA3.1/lacZ-stop^{TAG}-GFP was also digested with *ApaI* and *PmeI* to isolate the GFP fragment. The GFP fusion tag was ligated to the pcDNA6.2 DEST vector (Invitrogen Corporation, Carlsbad, CA catalog # 12489-027) and transformed into DB3.1 cells. Colonies were grown on LB-Amp plates. A clone was selected that resulted in correct band fragments when digested with *NdeI* and then sequence confirmed.

(c) pENTR CAT^{TAA,TAG,TGA} The GATEWAY™ CAT entry clones were PCR amplified followed by TOPO cloning (Invitrogen Corporation, Carlsbad, CA product manual #25-0434) into pENTR dT. Information for both vectors may be obtained by contacting Invitrogen Corporation, Carlsbad, CA. The primer sequences used were

Forward primer: 5' CACCATGGAGAAAAAAATCACTGG 3' (SEQ ID NO: 78)

Reverse primer: 5' CTGCTACGCCCCGCCCTGC 3' (SEQ ID NO: 79).

The underlined sequence varied depending on which stop codon was required. Plasmid constructs were sequence verified.

(d) pcDNA3.2/V5-GW/CAT$^{TAA, TAG, TGA}$: pcDNA3.2/V5-DEST and pENTR CAT with each of the stops was recombined using LR clonase to generate the plasmids pcDNA3.2/V5-GW/CAT$^{TAA, TAG, TGA}$. Clones were identified as correct by restriction enzyme digests and sequence confirmed.

(e) pcDNA6.2/GFP-GW/CAT $^{TAA, TAG, TGA}$: pcDNA6.2/GFP-DEST and pENTR CAT with each of the stops was recombined using LR clonase to generate the plasmids pcDNA6.2/GFP-GW/CAT $^{TAA, TAG, TGA}$. Clones were identified as correct by restriction enzyme digests and sequence confirmed.

(f) pENTR p48^{TAG} : This GATEWAY™ Entry clone was obtained from the Ultimate™ ORFeome Collection (Invitrogen Corporation, Carlsbad, CA) and is referred to by several names: HS8-E6 (internal Invitrogen designation), BC000141 (GenBank Accession number), or ORF 12 (used for convenience). This ORF is referred to as p48 and is a human c-myc variant (see Results section). Information for this clone may be obtained by contacting Invitrogen Corporation, Carlsbad, CA or GenBank.

(g) pcDNA6.2/GFP-GW/p48^{TAG} : pcDNA6.2/GFP-DEST and pENTR p48^{TAG} were recombined with LR clonase to generate pcDNA6.2/GFP-GW/p48^{TAG}. The recombination

reaction was transformed into TOP10 cells (Invitrogen Corporation, Carlsbad, CA, catalog #C4040-10) and plated on LB Ampicillin plates. Colonies were picked and clones were identified as correct by restriction enzyme digests and functional suppression.

(h) pcDNA6.2/V5-GW/p48^{TAG} : pcDNA6.2/V5-DEST and pENTR p48^{TAG} were recombined with LR clonase to generate the plasmid pcDNA6.2/V5-GW/p48^{TAG}. The recombination reaction was transformed into TOP10 cells and plated on LB Ampicillin plates. Colonies were picked and clones were identified as correct by restriction enzyme digests and functional suppression.

(i) pENTR-TO-tRNA^{TAG} : pENTR1A (Invitrogen Corporation, Carlsbad, CA) and pUC12-TO-tRNA^{TAG} (described in (a) above) were digested with *SalI* and *EcoRI*. Following digests, the appropriate bands were gel purified and ligated. Ligations were transformed into TOP10 cells and plated on LB-Kanamycin plates. Clone 1 was selected following *SalI* and *EcoRI* diagnostic digests.

(j) pENTR-tRNA8^{TAG} : Primers were created to PCR amplify the tRNA gene from pUC12 TO tRNA^{TAG} with *EcoRI* and *XbaI* sequences at the 5'end, and *SpeI* and *HindIII* at the 3' end. The primer sequences were:

Forward primer:

5' CACCGAATTCTCTAGAGATGTCTGTGAAAAGAAACAT 3' (SEQ ID NO: 80) and

Reverse primer:

5' ATATAAGCTTACTAGTCCGGATTTCCTCTACCCGAGA 3' (SEQ ID NO: 81).

The tRNA PCR product was gel purified, TOPO cloned into pENTR dT, and transformed into TOP10 cells. Colonies were selected on LB Kanamycin plates. Upon confirmation of proper insertion, two separate digests were conducted. The first digest with *EcoRI* and *XbaI* opened the pENTR-tRNA^{TAG}. The second digest with *EcoRI* and *SpeI* excised the tRNA gene. Correct fragments were gel purified, the two fragments were ligated, as *XbaI* and *SpeI* have complimentary ends, thus creating a dimer of tRNA. With confirmation of proper insertion, the same two previous digests were repeated with the dimer plasmid, fragments gel purified, ligations performed creating a tetramer. A final two digests, as previously described, were repeated on the tetramer, fragments gel purified, ligations performed creating an octamer tRNA in the pENTR backbone. (Buvoli *et al.*, *Mol. Cell. Biol. 20*:3116-3124 (2000), Suppression of Nonsense Mutations in Cell Culture and Mice by Multimerized Suppressor tRNA Genes).

Please amend paragraph **[0892]** as follows:

[0892] Adenovirus carrying the suppressor tRNA^{TAG} was created using a GATEWAY™ LxR reaction. pAd/PL-DEST vector (Table 10 (SEQ ID NO: 87), Figure 9) was recombined with either pENTR-tRNA^{TAG} or pENTR-tRNA8^{TAG} to create pAd-tRNA^{TAG} (Table 8, SEQ ID NO: 85) or pAd-tRNA8^{TAG} expression vectors, respectively. These vectors were subsequently cut with *PacI* and transfected into TREx 293 (Invitrogen Corporation, Carlsbad, CA, catalog #R710-07) cells to produce the initial stocks of recombinant adenovirus. Subsequent virus amplification and titering was performed in 293A cells as previously described in Example 4.

Please amend paragraph **[0909]** as follows:

[0909] The tRNA^{TAG} gene was cloned into pENTR to create pENTR-tRNA^{TAG}, and this was used in a GATEWAY™ LR reaction with pAd/PL-DEST (Table 10 (SEQ ID NO: 87), Figure 9) to create pAd-tRNA^{TAG}. Several large-scale preparations of virus were performed and functional testing was done. Adenovirus proved to be a very efficient way of delivering the tRNA, however preliminary experiments required MOIs (multiplicity of infection) of several hundred to deliver biologically relevant amounts of the tRNA. The goal was to achieve at least 50% suppression using an MOI of 50 in COS cells transfected with one of the reporter genes. It is believed that the tRNAs must compete with endogenous protein "stop factors" occupying the stop codon, which may explain the more efficient suppression in the presence of multiple copies of the nucleic acid molecule encoding the suppressor tRNA sequence. In an attempt to reduce the number of viral particles required for efficient suppression, eight copies of the tRNA gene were cloned into pENTR (called pENTR-tRNA8^{TAG}) and recombined into the adenovirus promoterless Destination vector. This new adenovirus (Adeno-tRNA8^{TAG}) was compared with the original monomer virus (Adeno-tRNA^{TAG}) for stop suppression (Figure 53). As shown by both fluorescent microscopy (upper panels) and anti-β-galactosidase western blotting (lower panel), a modest increase in suppression efficiency was observed with the 8-mer tRNA, and these suppression levels are as good as those seen with the plasmid-based tRNA (lanes 2 and 4). Indeed, in all subsequent experiments, the Ad-tRNA8^{TAG} transduction performed as well or better than a pUC-tRNA^{TAG} plasmid transfection making this recombinant adenovirus configuration particularly suitable for the methods of this invention.

Please amend paragraph **[0927]** as follows:

[0927] The pcDNA™6.2/V5-DEST and pcDNA™6.2/GFP-DEST vectors enable expression of recombinant polypeptide containing a choice of C-terminal tags. The pcDNA™6.2/V5-DEST vector encodes the V5 epitope for detection of recombinant polypeptide using the Anti-V5 antibodies. A plasmid map is provided as Figure 57 and the sequence of this vector is provided as Table 28 (SEQ ID NO: 112). The pcDNA™6.2/GFP-DEST vector encodes the Cycle-3 GFP for fusion to a polypeptide sequence of interest and use as a reporter gene. A plasmid map of this vector is provided as Figure 58 and the sequence of this vector is provided as Table 29 (SEQ ID NO: 113).

Please amend paragraph **[0929]** as follows:

[0929] The location in the plasmid sequence of pcDNA™6.2/V5-DEST (7341 nucleotides, SEQ ID NO: 112) of the features discussed above are: CMV promoter bases 232-819; T7 promoter/priming site bases 863-882; *att*R1 site bases 911-1035; *ccd*B gene bases 1464-1769 (c); chloramphenicol resistance gene bases 2111-2770 (c); *att*R2 site bases 3051-3175; V5 epitope bases 3201-3242; V5 reverse priming site 3210-3230; TK polyadenylation signal bases 3269-3540; f1 origin 3576-4004; SV40 early promoter and origin 4031-4339; EM7 promoter bases 4394-4460; Blasticidin resistance gene bases 4461-4859; SV40 early polyadenylation signal bases 5017-5147; pUC origin bases 5530-6200 (c); Ampicillin (*bla*) resistance gene bases 6345-7205 (c); *bla* promoter bases 7206-7304 (c) where (c) indicates present on the complementary strand.

Please amend paragraph **[0930]** as follows:

[0930] The location in the plasmid sequence of pcDNA™6.2/GFP-DEST (7995 nucleotides, SEQ ID NO: 113) of the features discussed above are: CMV promoter bases 232-819; T7 promoter/priming site bases 863-882; *att*R1 site bases 911-1035; *ccd*B gene bases 1464-1769 (c); Chloramphenicol resistance gene bases 2111-2770 (c); *att*R2 site bases 3051-3175; Cycle-3 GFP bases 3195-3908; GFP reverse priming site 3303-3324; TK polyadenylation signal bases 3923-4194; f1 origin 4230-4658; SV40 early promoter and origin 4685-4993; EM7 promoter bases 5048-5114; Blasticidin resistance gene bases 5115-5513; SV40 early polyadenylation signal bases 5671-5801; pUC origin bases 6184-6854 (c); Ampicillin (*bla*) resistance gene bases

6999-7859 (c); *bla* promoter bases 7860-7958 (c), where (c) indicates the feature is present on the complementary strand.

Please amend paragraph **[0939]** as follows:

[0939] The recombination region of pcDNA™6.2/V5-DEST and pcDNA6.2/GFP-DEST are provided as Figures 61A (SEQ ID NO: 153) and 61B (SEQ ID NO: 154) respectively. In Figure 61A (SEQ ID NO: 153), shaded regions correspond to those DNA sequences transferred from the entry clone into the pcDNA™6.2/V5-DEST vector by recombination. Non-shaded regions are derived from the pcDNA™6.2/V5-DEST vector. The sequences encoded by the gene of interest are boxed. To facilitate use with the Tag-on-Demand™ System, a gene of interest must contain a TAG stop codon and be in-frame with the C-terminal tag. Bases 918 and 3161 of the pcDNA™6.2/V5-DEST sequence are marked. Note that TAA and TGA stop codons are included downstream of the V5 epitope to allow translation termination in the Tag-on-Demand™ System. In Figure 61B (SEQ ID NO: 154), the recombination region of the expression clone resulting from pcDNA™6.2/GFP-DEST x entry clone is shown. The shaded regions correspond to those DNA sequences transferred from the entry clone into the pcDNA™6.2/GFP-DEST vector by recombination. Non-shaded regions are derived from the pcDNA™6.2/GFP-DEST vector. The sequences encoded by the gene of interest are boxed. To facilitate use with the Tag-on-Demand™ System, the gene of interest should contain a TAG stop codon. Bases 918 and 3161 of the pcDNA™6.2/GFP-DEST sequence are marked. TAA and TGA stop codons are included downstream of the GFP gene to allow translation termination in the Tag-on-Demand™ System (not shown).

Please amend paragraph **[0951]** as follows:

[0951] To confirm that a gene of interest is in the correct orientation and in frame with the C-terminal fusion tag, the expression construct can be sequenced. The following primers can be used to sequence an expression construct. Figures 61A (SEQ ID NO: 153) and 61B (SEQ ID NO: 154) provide the location of the primer binding sites in each vector. For sequencing the pcDNA™6.2/V5-DEST vector, an oligonucleotide that binds to the T7 promoter/priming site (*e.g.*, 5′-TAATACGACTCACTATAGGG-3′ SEQ ID NO: 45) and an oligonucleotide that binds to the V5(C-term) reverse priming site (*e.g.*, 5′-ACCGAGGAGAGGGTTAGGGAT-3′ SEQ ID

NO: 46) can be used. To sequence the pcDNA™6.2/GFP-DEST vector, an oligonucleotide that binds to the T7 promoter/priming site (*e.g.*, 5′-TAATACGACTCACTATAGGG-3′ SEQ ID NO: 45) and an oligonucleotide that binds to the GFP reverse priming site (*e.g.*, 5′-GGGTAAGCTTTCCGTATGTAGC-3′ SEQ ID NO: 82) can be used.

Please amend paragraph **[1002]** as follows:

[1002] In some embodiments, methods of the invention may be used to create a nucleic acid molecule encoding a fusion polypeptide. According to one aspect of the invention, a nucleic acid molecule encoding a fusion polypeptide may be constructed by combining a first nucleic acid molecule having a first nucleic acid sequence encoding a polypeptide sequence (*e.g.*, a polypeptide of interest) with a second nucleic acid molecule having a second nucleic acid sequence encoding an additional polypeptide sequence (*e.g.*, a polypeptide tag sequence). A nucleic acid molecule encoding a polypeptide of interest should contain an ATG initiation codon in the context of a Kozak consensus sequence for proper initiation of translation in mammalian cells (Kozak, 1987; Kozak, 1991; Kozak, 1990). An example of a Kozak consensus sequence is **(G/A)**NNATG**G** (SEQ ID NO: 159), where the ATG initiation codon is underlined. Other sequences are possible, but the G or A at position -3 and G at position +4 are the most critical for function (shown in bold).

Please amend paragraph **[1075]** as follows:

[1075] In one particular embodiment, the present invention provides two nucleic acid molecules (*e.g.*, plasmids, viral vectors etc.) that may be used in the practice of the invention. A first nucleic acid molecule comprises a repressor sequence and a promoter and may comprise a sequence of interest operably linked to the repressor and promoter. A first nucleic acid molecule may also comprise one or more recognition sequences (*e.g.*, recombination sites, topoisomerase sites, restriction enzyme sites, etc.). One non-limiting example of a first nucleic acid molecule is the plasmid, pLenti4/TO/V5-DEST, which contains two copies of the tetracycline operator sequence (TO) within the CMV promoter (CMVTetO$_2$). A map of this vector is provided as Figure 70A and the nucleotide sequence is provided in Table 31 (SEQ ID NO: 115). This plasmid also contains two recombination sites that do not recombine with each other. A sequence of interest may be operably linked to the promoter and repressor using any technique

known in the art. In one embodiment, a sequence of interest may be operably linked to the promoter and repressor by conducting a recombination reaction between a sequence of interest flanked by recombination sites and the nucleic acid molecule of the invention. For example, pLenti4/TO/V5-DEST (Figure 70A) can be reacted with a sequence of interest flanked by *att*R1 and *att*R2 sites to operably link the sequence of interest to the CMV promoter and tetracycline operator in a LR-recombination reaction. The reaction places the sequence of interest downstream of CMVTetO_2 for regulated expression in the presence of the tetracycline repressor protein.

Please amend paragraph **[1076]** as follows:

A second nucleic acid molecule of the invention may express one or more proteins that interact with repressor sequences. One non-limiting example of a repressor protein is the tetracycline repressor protein (TetR). One example of a suitable second nucleic acid molecule is the repressor plasmid pLenti6/TR, which expresses TetR. A map of this vector is provided as Figure 69 and the nucleotide sequence is provided as Table 32 (SEQ ID NO: 116). TetR binds the tetracycline operator sites in CMVTetO_2 promoter on the expression vector and blocks transcription from the promoter in the absence of inducer. When tetracycline inducer binds TetR, however, the latter dissociates from the promoter and transcription proceeds.

Please amend paragraph **[1082]** as follows:

[1082] A nucleic acid molecule expressing the tetracycline repressor protein may be constructed using any technique known in the art. For example, a nucleic acid fragment containing the tetracycline repressor coding sequence can be cloned using any technique known in the art. The nucleotide sequence of a nucleic acid fragment containing the coding sequence for the tetracycline repressor is provided as Table 35 (SEQ ID NO: 119). The 1.4 kb fragment also contains the β–globin intron. The 1.4 kb TetR-containing fragment was cloned into pLenti6/V5 (Invitrogen Corporation, Carlsbad, CA). A map of pLenti6/V5 is provided as Figure 71 and the nucleotide sequence is provided as Table 33 (SEQ ID NO: 117). The resulting plasmid, pLenti6/TR, was verified by restriction digest and sequence analyses. A map of pLenti6/TR is shown in Figure 69. pLenti6/TR can be used to generate blasticidin resistant mammalian cells that stably express the tetracycline repressor, TetR.

Please amend paragraph **[1083]** as follows:

[1083] Nucleic acid molecules comprising a promoter sequence and a repressor sequence can be constructed using any techniques known in the art. For example, pLenti4/TO/V5-DEST was created from pLenti3/V5-TREx (Invitrogen Corporation, Carlsbad, CA), by replacing the neomycin resistance gene of the latter with the zeocin resistance gene. pLenti3/V5-TREx contains the CMV promoter and Tet operators of pT-REx-DEST30 (Invitrogen Corporation, Carlsbad, CA catalog no. 12301016). A map of pLenti3/V5-TREx is provided as Figure 72 and the nucleotide sequence is provided in Table 34 (SEQ ID NO: 118).

Please amend paragraph **[1104]** as follows:

[1104] The restriction enzyme sites may be located such that a 3'-overhang of a desired length is produced on the strand containing the topoisomerase cleavage site (after the 3'-T in Fig. 73). The location of the topoisomerase cleavage site may be varied with respect to 3'-most nucleotide of the strand containing the cleavage site. This may be useful in generating a 5'-overhang on the opposite strand after topoisomerase cleavage in order to generate a sequence that can invade a double-stranded insert (see Figure 47, SEQ ID NO: 137).

Please amend Table 6 on pages 344-353 as follows:

Table 6: Nucleotide sequence of pAd/CMV/V5-DEST (SEQ ID NO: 83).

catcatcaataatataccttattttggattgaagccaatatgataatgagggggtggagtttgtgacgtggcgcggggcgtgggaacggggc
gggtgacgtagtagtgtggcggaagtgtgatgttgcaagtgtggcggaacacatgtaagcgacggatgtggcaaaagtgacgtttttggtg
tgcgccggtgtacacaggaagtgacaattttcgcgcggttttaggcggatgttgtagtaaatttgggcgtaaccgagtaagatttggccatttt
cgcgggaaaactgaataagaggaagtgaaatctgaataattttgtgttactcatagcgcgtaatatttgtctagggccgcggggactttgacc
gtttacgtggagactcgcccaggtgtttttctcaggtgttttccgcgttccgggtcaaagttggcgttttattattatagtcagtcgaagcttggat
ccggtacctctagaattctcgagcggccgctagcgacatcggatctcccgatcccctatggtcgactctcagtacaatctgctctgatgccgc
atagttaagccagtatctgctccctgcttgtgtgttggaggtcgctgagtagtgcgcgagcaaaatttaagctacaacaaggcaaggcttgac
cgacaattgcatgaagaatctgcttagggttaggcgttttgcgctgcttcgcgatgtacgggccagatatacgcgttgacattgattattgact
agttattaatagtaatcaattacggggtcattagttcatagcccatatatggagttccgcgttacataacttacggtaaatggcccgcctggctg
accgcccaacgacccccgcccattgacgtcaataatgacgtatgttcccatagtaacgccaatagggactttccattgacgtcaatgggtgg
actatttacggtaaactgcccacttggcagtacatcaagtgtatcatatgccaagtacgccccctattgacgtcaatgacggtaaatggcccg
cctggcattatgcccagtacatgaccttatgggactttcctacttggcagtacatctacgtattagtcatcgctattaccatggtgatgcggttttg
gcagtacatcaatgggcgtggatagcggtttgactcacggggatttccaagtctccaccccattgacgtcaatgggagtttgttttggcacca
aaatcaacgggactttccaaaatgtcgtaacaactccgccccattgacgcaaatgggcggtaggcgtgtacggtgggaggtctatataagc
agagctctctggctaactagagaacccactgcttactggcttatcgaaattaatacgactcactatagggagacccaagctggctagttaagc
tatcaacaagtttgtacaaaaaagctgaacgagaaacgtaaaatgatataaatatcaatatattaaattagattttgcataaaaaacagactaca
taatactgtaaaacacaacatatccagtcactatgaatcaactacttagatggtattagtgacctgtagtcgaccgacagccttccaaatgttctt
cgggtgatgctgccaacttagtcgaccgacagccttccaaatgttcttctcaaacggaatcgtcgtatccagcctactcgctattgtcctcaat
gccgtattaaatcataaaaagaaataagaaaaagaggtgcgagcctcttttttgtgtgacaaaataaaaacatctacctattcatatacgctagt
gtcatagtcctgaaaatcatctgcatcaagaacaatttcacaactcttatacttttctcttacaagtcgttcggcttcatctggattttcagcctctat
acttactaaacgtgataaagtttctgtaatttctactgtatcgacctgcagactggctgtgtataagggagcctgacatttatattccccagaaca
tcaggttaatggcgtttttgatgtcattttcgcggtggctgagatcagccacttcttccccgataacggagaccggcacactggccatatcggt
ggtcatcatgcgccagctttcatccccgatatgcaccaccgggtaaagttcacgggagactttatctgacagcagacgtgcactggccagg
gggatcaccatccgtcgcccgggcgtgtcaataatatcactctgtacatccacaaacagacgataacggctctctcttttataggtgtaaacct
taaactgcatttcaccagtccctgttctcgtcagcaaaagagccgttcatttcaataaaccgggcgacctcagccatcccttcctgatttccgc
tttccagcgttcggcacgcagacgacgggcttcattctgcatggttgtgcttaccagaccggagatattgacatcatatatgccttgagcaact
gatagctgtcgctgtcaactgtcactgtaatacgctgcttcatagcacacctcttttttgacatacttcgggtatacatatcagtatatattcttatac
cgcaaaaatcagcgcgcaaatacgcatactgttatctggcttttagtaagccggatccacgcgattacgccccgccctgccactcatcgcag
tactgttgtaattcattaagcattctgccgacatggaagccatcacagacggcatgatgaacctgaatcgccagcggcatcagcaccttgtcg
ccttgcgtataatatttgcccatggtgaaaacgggggcgaagaagttgtccatattggccacgtttaaatcaaaactggtgaaactcacccag
ggattggctgagacgaaaaacatattctcaataaaccctttagggaaataggccaggttttcaccgtaacacgccacatcttgcgaatatatgt
gtagaaactgccggaaatcgtcgtggtattcactccagagcgatgaaaacgtttcagtttgctcatggaaaacggtgtaacaagggtgaaca
ctatcccatatcaccagctcaccgtctttcattgccatacggaattccggatgagcattcatcaggcgggcaagaatgtgaataaaggccgg
ataaaacttgtgcttatttttctttacggtctttaaaaaggccgtaatatccagctgaacggtctggttataggtacattgagcaactgactgaaat
gcctcaaaatgttctttacgatgccattgggatatatcaacggtggtatatccagtgatttttttctccattttagcttccttagctcctgaaaatctc
gataactcaaaaaatacgcccggtagtgatcttatttcattatggtgaaagttggaacctcttacgtgccgatcaacgtctcattttcgccaaaa
gttggcccagggcttcccggtatcaacagggacaccaggatttatttattctgcgaagtgatcttccgtcacaggtatttattcggcgcaaagt
gcgtcgggtgatgctgccaacttagtcgactacaggtcactaataccatctaagtagttgattcatagtgactggatatgttgtgttttacagtat
tatgtagtctgttttttatgcaaaatctaatttaatatattgatatttatatcattttacgtttctcgttcagctttcttgtacaaagtggttgatctagagg
gcccgcggttcgaaggtaagcctatccctaaccctctcctcggtctcgattctacgcgtaccggttagtaatgagtttaaacgggggaggct
aactgaaacacggaaggagacaataccggaaggaacccgcgctatgacggcaataaaagacagaataaaacgcacgggtgttgggtc
gtttgttcataaacgcggggttcggtcccagggctggcactctgtcgataccccaccgagaccccattggggccaata

Table 6 (continued) Nucleotide sequence of pAd/CMV/V5-DEST (SEQ ID NO: 83).

cgcccgcgtttcttccttttccccaccccaccccccaagttcgggtgaaggcccagggctcgcagccaacgtcggggcggcaggccctg
ccatagcagatccgattcgacagatcactgaaatgtgtgggcgtggcttaagggtgggaaagaatatataaggtgggggtcttatgtagtttt
gtatctgttttgcagcagccgccgccgccatgagcaccaactcgtttgatggaagcattgtgagctcatatttgacaacgcgcatgcccccat
gggccggggtgcgtcagaatgtgatgggctccagcattgatggtcgccccgtcctgcccgcaaactctactaccttgacctacgagaccgt
gtctggaacgccgttggagactgcagcctccgccgccgcttcagccgctgcagccaccgcccgcgggattgtgactgactttgctttcctg
agcccgcttgcaagcagtgcagcttcccgttcatccgcccgcgatgacaagttgacggctcttttggcacaattggattctttgacccgggaa
cttaatgtcgtttctcagcagctgttggatctgcgccagcaggtttctgccctgaaggcttcctcccctcccaatgcggtttaaaacataaataa
aaaaccagactctgtttggatttggatcaagcaagtgtcttgctgtctttatttaggggttttgcgcgcgcggtaggcccgggaccagcggtct
cggtcgttgagggtcctgtgtatttttttccaggacgtggtaaaggtgactctggatgttcagatacatgggcataagcccgtctctggggtgg
aggtagcaccactgcagagcttcatgctgcggggtggtgttgtagatgatccagtcgtagcaggagcgctgggcgtggtgcctaaaaatgt
ctttcagtagcaagctgattgccaggggcaggcccttggtgtaagtgtttacaaagcggttaagctgggatgggtgcatacgtggggatatg
agatgcatcttggactgtatttttaggttggctatgttcccagccatatccctccggggattcatgttgtgcagaaccaccagcacagtgtatcc
ggtgcacttgggaaatttgtcatgtagcttagaaggaaatgcgtggaagaacttggagacgcccttgtgacctccaagattttccatgcattc
gtccataatgatggcaatgggcccacgggcggcggcctgggcgaagatatttctgggatcactaacgtcatagttgtgttccaggatgaga
tcgtcataggccatttttacaaagcgcgggcggagggtgccagactgcggtataatggttccatccggcccaggggcgtagttaccctcac
agatttgcatttcccacgctttgagttcagatgggggggatcatgtctacctgcggggcgatgaagaaaacggtttccggggtaggggagat
cagctgggaagaaagcaggttcctgagcagctgcgacttaccgcagccggtgggcccgtaaatcacacctattaccgggtgcaactggta
gttaagagagctgcagctgccgtcatccctgagcaggggggccacttcgttaagcatgtccctgactcgcatgttttccctgaccaaatccg
ccagaaggcgctcgccgcccagcgatagcagttcttgcaaggaagcaaagtttttcaacggtttgagaccgtccgccgtaggcatgcttttg
agcgtttgaccaagcagttccaggcggtcccacagctcggtcacctgctctacggcatctcgatccagcatatctcctcgtttcgcgggttgg
ggcggctttcgctgtacggcagtagtcggtgctcgtccagacgggccagggtcatgtctttccacgggcgcagggtcctcgtcagcgtagt
ctgggtcacggtgaaggggtgcgctccgggctgcgcgctggccagggtgcgcttgaggctggtcctgctggtgctgaagcgctgccggt
cttcgccctgcgcgtcggccaggtagcatttgaccatggtgtcatagtccagcccctccgcggcgtggcccttggcgcgcagcttgccctt
ggaggaggcgccgcacgaggggcagtgcagacttttgagggcgtagagcttgggcgcgagaaataccgattccggggagtaggcatc
cgcgccgcaggccccgcagacggtctcgcattccacgagccaggtgagctctggccgttcggggtcaaaaaccaggtttcccccatgctt
tttgatgcgtttcttacctctggtttccatgagccggtgtccacgctcggtgacgaaaaggctgtccgtgtccccgtatacagacttgagaggc
ctgtcctcgagcggtgttccgcggtcctcctcgtatagaaactcggaccactctgagacaaaggctcgcgtccaggccagcacgaaggag
gctaagtgggaggggtagcggtcgttgtccactagggggtccactcgctccagggtgtgaagacacatgtcgccctcttcggcatcaagg
aaggtgattggtttgtaggtgtaggccacgtgaccgggtgttcctgaaggggggctataaaaggggtgggggcgcgttcgtcctcactct
cttccgcatcgctgtctgcgagggccagctgttggggtgagtactccctctgaaaagcgggcatgacttctgcgctaagattgtcagtttcca
aaaacgaggaggatttgatattcacctggcccgcggtgatgcctttgagggtggccgcatccatctggtcagaaaagacaatctttttgttgt
caagcttggtggcaaacgacccgtagagggcgttggacagcaacttggcgatggagcgcagggtttggtttttgtcgcgatcggcgcgct
ccttggccgcgatgtttagctgcacgtattcgcgcgcaacgcaccgccattcgggaaagacggtggtgcgctcgtcgggcaccaggtgc
acgcgccaaccgcggttgtgcagggtgacaaggtcaacgctggtggctacctctccgcgtaggcgctcgttggtccagcagaggcggc
cgcccttgcgcgagcagaatggcggtagggggtctagctgcgtctcgtccggggggtctgcgtccacggtaaagaccccgggcagcag
gcgcgcgtcgaagtagtctatcttgcatccttgcaagtctagcgcctgctgccatgcgcgggcggcaagcgcgcgctcgtatgggttgagt
gggggaccccatggcatggggtgggtgagcgcggaggcgtacatgccgcaaatgtcgtaaacgtagaggggctctctgagtattccaa
gatatgtagggtagcatcttccaccgcggatgctggcgcgcacgtaatcgtatagttcgtgcgagggagcgaggaggtcgggaccgagg
ttgctacgggcgggctgctctgctcggaagactatctgcctgaagatggcatgtgagttggatgatatggttggacgctggaagacgttgaa
gctggcgtctgtgagacctaccgcgtcacgcacgaaggaggcgtaggagtcgcgcagcttgttgaccagctcggcggtgacctgcacgt
ctagggcgcagtagtccagggtttccttgatgatgtcatacttatcctgtcccttttttttccacagctcgcggttgaggacaaactcttcgcggt
ctttccagtactcttggatcggaaacccgtcggcctccgaacggtaagagcctagcatgtagaactggttgacggcctggtaggcgcagca
tccctttctacgggtagcgcgtatgcctgcgcggccttccggagcgaggtgtgggtgagcgcaaagg

Table 6 (continued) Nucleotide sequence of pAd/CMV/V5-DEST (SEQ ID NO: 83).

tgtccctgaccatgactttgaggtactggtatttgaagtcagtgtcgtcgcatccgccctgctcccagagcaaaaagtccgtgcgctttttgga
acgcggatttggcagggcgaaggtgacatcgttgaagagtatctttcccgcgcgaggcataaagttgcgtgtgatgcggaagggtcccgg
cacctcggaacggttgttaattacctgggcggcgagcacgatctcgtcaaagccgttgatgttgtggcccacaatgtaaagttccaagaagc
gcgggatgcccttgatggaaggcaattttttaagttcctcgtaggtgagctcttcaggggagctgagcccgtgctctgaaagggcccagtct
gcaagatgagggttggaagcgacgaatgagctccacaggtcacgggccattagcatttgcaggtggtcgcgaaaggtcctaaactggcg
acctatggccatttttctggggtgatgcagtagaaggtaagcgggtcttgttcccagcggtcccatccaaggttcgcggctaggtctcgcgc
ggcagtcactagaggctcatctccgccgaacttcatgaccagcatgaagggcacgagctgcttcccaaaggcccccatccaagtataggt
ctctacatcgtaggtgacaaagagacgctcggtgcgaggatgcgagccgatcgggaagaactggatctcccgccaccaattggaggagt
ggctattgatgtggtgaaagtagaagtccctgcgacgggccgaacactcgtgctggcttttgtaaaaacgtgcgcagtactggcagcggtg
cacgggctgtacatcctgcacgaggttgacctgacgaccgcgcacaaggaagcagagtgggaatttgagcccctcgcctggcgggtttg
gctggtggtcttctacttcggctgcttgtccttgaccgtctggctgctcgaggggagttacggtggatcggaccaccacgccgcgcgagcc
caaagtccagatgtccgcgcgcggcggtcggagcttgatgacaacatcgcgcagatgggagctgtccatggtctggagctcccgcggc
gtcaggtcaggcgggagctcctgcaggtttacctcgcatagacgggtcagggcgcgggctagatccaggtgatacctaatttccaggggc
tggttggtggcggcgtcgatggcttgcaagaggccgcatccccgcggcgcgactacggtaccgcgcggcgggcggtgggccgcggg
ggtgtccttggatgatgcatctaaaagcggtgacgcgggcgagcccccggaggtagggggggctccggacccgccgggagagggggg
caggggcacgtcggcgccgcgcgcgggcaggagctggtgctgcgcgcgtaggttgctggcgaacgcgacgacgcggcggttgatct
cctgaatctggcgcctctgcgtgaagacgacgggcccggtgagcttgagcctgaaagagagttcgacagaatcaatttcggtgtcgttgac
ggcggcctggcgcaaaatctcctgcacgtctcctgagttgtcttgataggcgatctcggccatgaactgctcgatctcttcctcctggagatct
ccgcgtccggctcgctccacggtggcggcgaggtcgttggaaatgcgggccatgagctgcgagaaggcgttgaggcctccctcgttcca
gacgcggctgtagaccacgcccccttcggcatcgcgggcgcgcatgaccacctgcgcgagattgagctccacgtgccgggcgaagac
ggcgtagtttcgcaggcgctgaaagaggtagttgagggtggtggcggtgtgttctgccacgaagaagtacataacccagcgtcgcaacgt
ggattcgttgatatcccccaaggcctcaaggcgctccatggcctcgtagaagtccacggcgaagttgaaaaactgggagttgcgcgccga
cacggttaactcctcctccagaagacggatgagctcggcgacagtgtcgcgcacctcgcgctcaaaggctacaggggcctcttcttcttctt
caatctcctcttccataagggcctccccttcttcttcttctggcggcggtgggggagggggggacacggcggcgacgacggcgcaccggg
aggcggtcgacaaagcgctcgatcatctccccgcggcgacggcgcatggtctcggtgacggcgcggccgttctcgcgggggcgcagtt
ggaagacgccgcccgtcatgtcccggttatgggttggcgggggggctgccatgcggcagggatacggcgctaacgatgcatctcaacaat
tgttgtgtaggtactccgccgccgagggacctgagcgagtccgcatcgaccggatcggaaaacctctcgagaaaggcgtctaaccagtca
cagtcgcaaggtaggctgagcaccgtggcgggcggcagcgggcggcggtcggggttgtttctggcggaggtgctgctgatgatgtaatt
aaagtaggcggtcttgagacggcggatggtcgacagaagcaccatgtccttgggtccggcctgctgaatgcgcaggcggtcggccatgc
cccaggcttcgttttgacatcggcgcaggtctttgtagtagtcttgcatgagcctttctaccggcacttcttcttctccttcctcttgtcctgcatct
cttgcatctatcgctgcggcggcggcggagtttggccgtaggtggcgccctcttcctcccatgcgtgtgaccccgaagcccctcatcggct
gaagcagggctaggtcggcgacaacgcgctcggctaatatggcctgctgcacctgcgtgagggtagactggaagtcatccatgtccaca
aagcggtggtatgcgcccgtgttgatggtgtaagtgcagttggccataacggaccagttaacggtctggtgacccggctgcgagagctcg
gtgtacctgagacgcgagtaagccctcgagtcaaatacgtagtcgttgcaagtccgcaccaggtactggtatcccaccaaaaagtgcggc
ggcggctggcggtagaggggccagcgtagggtggccggggctccgggggcgagatcttccaacataaggcgatgatatccgtagatgt
acctggacatccaggtgatgccggcggcggtggtggaggcgcgcggaaagtcgcggacgcggttccagatgttgcgcagcggcaaaa
agtgctccatggtcgggacgctctggccggtcaggcgcgcgcaatcgttgacgctctagaccgtgcaaaaggagagcctgtaagcggg
cactcttccgtggtctggtggataaattcgcaagggtatcatggcggacgaccggggttcgagccccgtatccggccgtccgccgtgatcc
atgcggttaccgcccgcgtgtcgaacccaggtgtgcgacgtcagacaacgggggagtgctccttttggcttccttccaggcgcggcggct
gctgcgctagcttttttggccactggccgcgcgcagcgtaagcggttaggctggaaagcgaaagcattaagtggctcgctccctgtagccg
gagggttattttccaagggttgagtcgcgggacccccggttcgagtctcggaccggccggactgcggcgaacgggggtttgcctccccgt
catgcaagaccccgcttgcaaattcctccggaaacagggacgagcccctttttttgcttttcccagatgcatccggtgctgcggcagatgcgc
ccccctcctcagcagcggcaagagcaagagcagcggcagacatgcagggcaccctcccctcctcctacc

Table 6 (continued) Nucleotide sequence of pAd/CMV/V5-DEST (SEQ ID NO: 83).

gcgtcaggaggggcgacatccgcggttgacgcggcagcagatggtgattacgaacccccgcggcgccgggcccggcactacctggac
ttggaggagggcgagggcctggcgcggctaggagcgccctctcctgagcggtacccaagggtgcagctgaagcgtgatacgcgtgag
gcgtacgtgccgcggcagaacctgtttcgcgaccgcgagggagaggagcccgaggagatgcgggatcgaaagttccacgcagggcg
cgagctgcggcatggcctgaatcgcgagcggttgctgcgcgaggaggactttgagcccgacgcgcgaaccgggattagtcccgcgcg
cgcacacgtggcggccgccgacctggtaaccgcatacgagcagacggtgaaccaggagattaactttcaaaaaagctttaacaaccacg
tgcgtacgcttgtggcgcgcgaggaggtggctataggactgatgcatctgtgggactttgtaagcgcgctggagcaaaacccaaatagca
agccgctcatggcgcagctgttccttatagtgcagcacagcagggacaacgaggcattcagggatgcgctgctaaacatagtagagcccg
agggccgctggctgctcgatttgataaacatcctgcagagcatagtggtgcaggagcgcagcttgagcctggctgacaaggtggccgcc
atcaactattccatgcttagcctgggcaagttttacgcccgcaagatataccataccccttacgttcccatagacaaggaggtaaagatcgag
gggttctacatgcgcatggcgctgaaggtgcttaccttgagcgacgacctgggcgtttatcgcaacgagcgcatccacaaggccgtgagc
gtgagccggcggcgcgagctcagcgaccgcgagctgatgcacagcctgcaaagggccctggctggcacgggcagcggcgatagaga
ggccgagtcctactttgacgcgggcgctgacctgcgctgggccccaagccgacgcgccctggaggcagctggggccggacctgggct
ggcggtggcacccgcgcgcgctggcaacgtcggcggcgtggaggaatatgacgaggacgatgagtacgagccagaggacggcgag
tactaagcggtgatgtttctgatcagatgatgcaagacgcaacggacccggcggtgcgggcggcgctgcagagccagccgtccggcctt
aactccacggacgactggcgccaggtcatggaccgcatcatgtcgctgactgcgcgcaatcctgacgcgttccggcagcagccgcagg
ccaaccggctctccgcaattctggaagcggtggtcccggcgcgcgcaaaccccacgcacgagaaggtgctggcgatcgtaaacgcgct
ggccgaaaacagggccatccggcccgacgaggccggcctggtctacgacgcgctgcttcagcgcgtggctcgttacaacagcggcaa
cgtgcagaccaacctggaccggctggtgggggatgtgcgcgaggccgtggcgcagcgtgagcgcgcgcagcagcagggcaacctg
ggctccatggttgcactaaacgccttcctgagtacacagcccgccaacgtgccgcggggacaggaggactacaccaactttgtgagcgc
actgcggctaatggtgactgagacaccgcaaagtgaggtgtaccagtctgggccagactattttttccagaccagtagacaaggcctgcag
accgtaaacctgagccaggctttcaaaaacttgcaggggctgtgggggtgcgggctcccacaggcgaccgcgcgaccgtgtctagctt
gctgacgcccaactcgcgcctgttgctgctgctaatagcgcccttcacggacagtggcagcgtgtcccgggacacatacctaggtcacttg
ctgacactgtaccgcgaggccataggtcaggcgcatgtggacgagcatactttccaggagattacaagtgtcagccgcgcgctggggca
ggaggacacgggcagcctggaggcaaccctaaactacctgctgaccaaccggcggcagaagatcccctcgttgcacagtttaaacagc
gaggaggagcgcattttgcgctacgtgcagcagagcgtgagccttaacctgatgcgcgacggggtaacgcccagcgtggcgctggaca
tgaccgcgcgcaacatggaaccgggcatgtatgcctcaaaccggccgtttatcaaccgcctaatggactacttgcatcgcgcggccgccg
tgaaccccgagtatttcaccaatgccatcttgaacccgcactggctaccgccccctggtttctacaccgggggattcgaggtgcccgaggg
taacgatggattcctctgggacgacatagacgacagcgtgttttccccgcaaccgcagaccctgctagagttgcaacagcgcgagcaggc
agaggcggcgctgcgaaaggaaagcttccgcaggccaagcagcttgtccgatctaggcgctgcggccccgcggtcagatgctagtagc
ccatttccaagcttgatagggtctcttaccagcactcgcaccacccgcccgcgcctgctgggcgaggaggagtacctaaacaactcgctgc
tgcagccgcagcgcgaaaaaaacctgcctccggcatttcccaacaacgggatagagagcctagtggacaagatgagtagatggaagac
gtacgcgcaggagcacagggacgtgccaggcccgcgcccgcccacccgtcgtcaaaggcacgaccgtcagcggggtctggtgtggg
aggacgatgactcggcagacgacagcagcgtcctggatttgggagggagtggcaacccgtttgcgcaccttcgccccaggctggggag
aatgttttaaaaaaaaaaaagcatgatgcaaaataaaaaactcaccaaggccatggcaccgagcgttggttttcttgtattccccttagtatgc
ggcgcgcggcgatgtatgaggaaggtcctcctccctcctacgagagtgtggtgagcgcggcgccagtggcggcggcgctgggttctcc
cttcgatgctcccctggacccgccgtttgtgcctccgcggtacctgcggcctaccgggggggagaaacagcatccgttactctgagttggca
cccctattcgacaccacccgtgtgtacctggtggacaacaagtcaacggatgtggcatccctgaactaccagaacgaccacagcaactttc
tgaccacggtcattcaaaacaatgactacagcccgggggaggcaagcacacagaccatcaatcttgacgaccggtcgcactggggcgg
cgacctgaaaaccatcctgcataccaacatgccaaatgtgaacgagttcatgtttaccaataagtttaaggcgcgggtgatggtgtcgcgctt
gcctactaaggacaatcaggtggagctgaaatacgagtgggtggagttcacgctgcccgagggcaactactccgagaccatgaccatag
accttatgaacaacgcgatcgtggagcactacttgaaagtgggcagacagaacggggttctggaaagcgacatcggggtaaagtttgaca
cccgcaacttcagactggggtttgaccccgtcactggtcttgtcatgcctggggtatatacaaacgaagccttccatccagacatcattttgct
gccaggatgcggggtggacttcacccacagccgcctgagcaacttgttgggcatccgcaagcggcaaccct

Table 6 (continued) Nucleotide sequence of pAd/CMV/V5-DEST (SEQ ID NO: 83).

tccaggagggctttaggatcacctacgatgatctggagggtggtaacattcccgcactgttggatgtggacgcctaccaggcgagcttgaa
agatgacaccgaacagggcgggggtggcgcaggcggcagcaacagcagtggcagcggcgcggaagagaactccaacgcggcagc
cgcggcaatgcagccggtggaggacatgaacgatcatgccattcgcggcgacacctttgccacacgggctgaggagaagcgcgctgag
gccgaagcagcggccgaagctgccgcccccgctgcgcaacccgaggtcgagaagcctcagaagaaaccggtgatcaaacccctgac
agaggacagcaagaaacgcagttacaacctaataagcaatgacagcaccttcacccagtaccgcagctggtaccttgcatacaactacgg
cgaccctcagaccggaatccgctcatggaccctgctttgcactcctgacgtaacctgcggctcggagcaggtctactggtcgttgccagac
atgatgcaagaccccgtgaccttccgctccacgcgccagatcagcaactttccggtggtgggcgccgagctgttgcccgtgcactccaag
agcttctacaacgaccaggccgtctactcccaactcatccgccagtttacctctctgacccacgtgttcaatcgctttcccgagaaccagatttt
ggcgcgcccgccagcccccaccatcaccaccgtcagtgaaaacgttcctgctctcacagatcacgggacgctaccgctgcgcaacagca
tcggaggagtccagcgagtgaccattactgacgccagacgccgcacctgcccctacgtttacaaggccctgggcatagtctcgccgcgc
gtcctatcgagccgcactttttgagcaagcatgtccatccttatatcgcccagcaataacacaggctggggcctgcgcttcccaagcaagat
gtttggcggggccaagaagcgctccgaccaacacccagtgcgcgtgcgcgggcactaccgcgcgccctggggcgcgcacaaacgcg
gccgcactgggcgcaccaccgtcgatgacgccatcgacgcggtggtggaggaggcgcgcaactacacgcccacgccgccaccagtgt
ccacagtggacgcggccattcagaccgtggtgcgcggagcccggcgctatgctaaaatgaagagacggcggaggcgcgtagcacgtc
gccaccgccgccgacccggcactgccgcccaacgcgcggcggcggccctgcttaaccgcgcacgtcgcaccggccgacgggcggc
catgcgggccgctcgaaggctggccgcgggtattgtcactgtgccccccaggtccaggcgacgagcggccgccgcagcagccgcggc
cattagtgctatgactcagggtcgcaggggcaacgtgtattgggtgcgcgactcggttagcggcctgcgcgtgcccgtgcgcacccgccc
cccgcgcaactagattgcaagaaaaaactacttagactcgtactgttgtatgtatccagcggcggcggcgcgcaacgaagctatgtccaag
cgcaaaatcaaagaagagatgctccaggtcatcgcgccggagatctatggcccccgaagaaggaagagcaggattacaagccccgaa
agctaaagcgggtcaaaaagaaaaagaaagatgatgatgatgaacttgacgacgaggtggaactgctgcacgctaccgcgcccaggcg
acgggtacagtggaaaggtcgacgcgtaaaacgtgttttgcgacccggcaccaccgtagtctttacgcccggtgagcgctccacccgcac
ctacaagcgcgtgtatgatgaggtgtacggcgacgaggacctgcttgagcaggccaacgagcgcctcggggagtttgcctacggaaag
cggcataaggacatgctggcgttgccgctggacgagggcaacccaacacctagcctaaagcccgtaacactgcagcaggtgctgcccg
cgcttgcaccgtccgaagaaaagcgcggcctaaagcgcgagtctggtgacttggcacccaccgtgcagctgatggtacccaagcgcca
gcgactggaagatgtcttggaaaaaatgaccgtggaacctgggctggagcccgaggtccgcgtgcggccaatcaagcaggtggcgccg
ggactgggcgtgcagaccgtggacgttcagatacccactaccagtagcaccagtattgccaccgccacagagggcatggagacacaaa
cgtccccggttgcctcagcggtggcggatgccgcggtgcaggcggtcgctgcggccgcgtccaagacctctacggaggtgcaaacgg
acccgtggatgtttcgcgtttcagccccccggcgcccgcgcggttcgaggaagtacggcgccgccagcgcgctactgcccgaatatgcc
ctacatccttccattgcgcctacccccggctatcgtggctacacctaccgccccagaagacgagcaactacccgacgccgaaccaccact
ggaacccgccgccgccgtcgccgtcgccagcccgtgctggccccgatttccgtgcgcagggtggctcgcgaaggaggcaggaccctg
gtgctgccaacagcgcgctaccaccccagcatcgtttaaaagccggtctttgtggttcttgcagatatggccctcacctgccgcctccgtttc
ccggtgccgggattccgaggaagaatgcaccgtaggaggggcatggccggccacggcctgacgggcggcatgcgtcgtgcgcacca
ccggcggcggcgcgcgtcgcaccgtcgcatgcgcggcggtatcctgcccctccttattccactgatcgccgcggcgattggcgccgtgc
ccggaattgcatccgtggccttgcaggcgcagagacactgattaaaaacaagttgcatgtggaaaaatcaaaataaaaagtctggactctc
acgctcgcttggtcctgtaactattttgtagaatggaagacatcaactttgcgtctctggccccgcgacacggctcgcgcccgttcatgggaa
actggcaagatatcggcaccagcaatatgagcggtggcgccttcagctggggctcgctgtggagcggcattaaaaatttcggttccaccgt
taagaactatggcagcaaggcctggaacagcagcacaggccagatgctgagggataagttgaaagagcaaaatttccaacaaaaggtgg
tagatggcctggcctctggcattagcggggtggtggacctggccaaccaggcagtgcaaaataagattaacagtaagcttgatccccgcc
ctcccgtagaggagcctccaccggccgtggagacagtgtctccagaggggcgtggcgaaaagcgtccgcgccccgacagggaagaa
actctggtgacgcaaatagacgagcctccctcgtacgaggaggcactaagcaaggcctgcccaccacccgtcccatcgcgcccatggc
taccggagtgctgggccagcacacacccgtaacgctggacctgcctcccccgccgacacccagcagaaacctgtgctgccaggcccg
accgccgttgttgtaacccgtcctagccgcgcgtccctgcgccgcgccgccagcggtccgcgatcgttgcggcccgtagccagtggcaa
ctggcaaagcacactgaacagcatcgtgggtctgggggtgcaatccctgaagcgccgacgatgcttct

Table 6 (continued) Nucleotide sequence of pAd/CMV/V5-DEST (SEQ ID NO: 83).

gaatagctaacgtgtcgtatgtgtgtcatgtatgcgtccatgtcgccgccagaggagctgctgagccgccgcgcgcccgctttccaagatg
gctaccccttcgatgatgccgcagtggtcttacatgcacatctcgggccaggacgcctcggagtacctgagccccgggctggtgcagtttg
cccgcgccaccgagacgtacttcagcctgaataacaagtttagaaccccacggtggcgcctacgcacgacgtgaccacagaccggtcc
cagcgtttgacgctgcggttcatccctgtggaccgtgaggatactgcgtactcgtacaaggcgcggttcaccctagctgtgggtgataacc
gtgtgctggacatggcttccacgtactttgacatccgcggcgtgctggacaggggccctacttttaagccctactctggcactgcctacaac
gccctggctcccaagggtgccccaaatccttgcgaatgggatgaagctgctactgctcttgaaataaacctagaagaagaggacgatgac
aacgaagacgaagtagacgagcaagctgagcagcaaaaaactcacgtatttgggcaggcgccttattctggtataaatattacaaaggag
ggtattcaaataggtgtcgaaggtcaaacacctaaatatgccgataaaacatttcaacctgaacctcaaataggagaatctcagtggtacgaa
actgaaattaatcatgcagctgggagagtccttaaaaagactaccccaatgaaaccatgttacggttcatatgcaaaacccacaaatgaaaat
ggagggcaaggcattcttgtaaagcaacaaaatggaaagctagaaagtcaagtggaaatgcaatttttctcaactactgaggcgaccgcag
gcaatggtgataacttgactcctaaagtggtattgtacagtgaagatgtagatatagaaaccccagacactcatatttcttacatgcccactatt
aaggaaggtaactcacgagaactaatgggccaacaatctatgcccaacaggcctaattacattgcttttagggacaattttattggtctaatgt
attacaacagcacgggtaatatgggtgttctggcgggccaagcatcgcagttgaatgctgttgtagatttgcaagacagaaacacagagctt
tcataccagcttttgcttgattccattggtgatagaaccaggtacttttctatgtggaatcaggctgttgacagctatgatccagatgttagaatta
ttgaaaatcatggaactgaagatgaacttccaaattactgctttccactgggaggtgtgattaatacagagactcttaccaaggtaaaacctaa
aacaggtcaggaaaatggatgggaaaaagatgctacagaattttcagataaaaatgaaataagagttggaaataattttgccatggaaatca
atctaaatgccaacctgtggagaaatttcctgtactccaacatagcgctgtatttgcccgacaagctaaagtacagtccttccaacgtaaaaat
ttctgataacccaaacacctacgactacatgaacaagcgagtggtggctcccgggttagtggactgctacattaaccttggagcacgctggt
cccttgactatatggacaacgtcaacccatttaaccaccaccgcaatgctggcctgcgctaccgctcaatgttgctgggcaatggtcgctatg
tgcccttccacatccaggtgcctcagaagttctttgccattaaaaacctccttctcctgccgggctcatacacctacgagtggaacttcaggaa
ggatgttaacatggttctgcagagctccctaggaaatgacctaagggttgacggagccagcattaagtttgatagcatttgcctttacgccac
cttcttccccatggcccacaacaccgcctccacgcttgaggccatgcttagaaacgacaccaacgaccagtcctttaacgactatctctccg
ccgccaacatgctctaccctatacccgccaacgctaccaacgtgcccatatccatcccctcccgcaactgggcggctttccgcggctgggc
cttcacgcgccttaagactaaggaaaccccatcactgggctcgggctacgacccttattacacctactctggctctataccctacctagatgg
aaccttttacctcaaccacacctttaagaaggtggccattacctttgactcttctgtcagctggcctggcaatgaccgcctgcttacccccaac
gagtttgaaattaagcgctcagttgacggggagggttacaacgttgcccagtgtaacatgaccaaagactggttcctggtacaaatgctagc
taactacaacattggctaccagggcttctatatcccagagagctacaaggaccgcatgtactccttctttagaaacttccagcccatgagccg
tcaggtggtggatgatactaaatacaaggactaccaacaggtgggcatcctacaccaacacaacaactctggatttgttggctaccttgccc
ccaccatgcgcgaaggacaggcctaccctgctaacttcccctatccgcttataggcaagaccgcagttgacagcattacccagaaaaagtt
tctttgcgatcgcaccctttggcgcatcccattctccagtaactttatgtccatgggcgcactcacagacctgggccaaaaccttctctacgcc
aactccgcccacgcgctagacatgacttttgaggtggatcccatggacgagcccacccttctttatgttttgtttgaagtctttgacgtggtccg
tgtgcaccggccgcaccgcggcgtcatcgaaaccgtgtacctgcgcacgcccttctcggccggcaacgccacaacataaagaagcaag
caacatcaacaacagctgccgccatgggctccagtgagcaggaactgaaagccattgtcaaagatcttggttgtgggccatatttttgggc
acctatgacaagcgctttccaggctttgtttctccacacaagctcgcctgcgccatagtcaatacggccggtcgcgagactgggggcgtac
actggatggcctttgcctggaacccgcactcaaaaacatgctacctctttgagccctttggcttttctgaccagcgactcaagcaggtttacca
gtttgagtacgagtcactcctgcgccgtagcgccattgcttcttcccccgaccgctgtataacgctggaaaagtccacccaaagcgtacagg
ggcccaactcggccgcctgtggactattctgctgcatgtttctccacgcctttgccaactggccccaaactcccatggatcacaaccccacc
atgaaccttattaccggggtacccaactccatgctcaacagtccccaggtacagcccaccctgcgtcgcaaccaggaacagctctacagct
tcctggagcgccactcgccctacttccgcagccacagtgcgcagattaggagcgccacttctttttgtcacttgaaaaacatgtaaaaataat
gtactagagacactttcaataaaggcaaatgcttttatttgtacactctcgggtgattatttacccccacccttgccgtctgcgccgtttaaaaatc
aaaggggttctgccgcgcatcgctatgcgccactggcagggacacgttgcgatactggtgtttagtgctccacttaaactcaggcacaacc
atccgcggcagctcggtgaagttttcactccacaggctgcgcaccatcaccaacgcgtttagcaggtcgggcgccgatatcttgaagtcgc
agttggggcctccgccctgcgcgcgcgagttgcgatacacagggttgcagcactggaacactatcagcgcc

Table 6 (continued) Nucleotide sequence of pAd/CMV/V5-DEST (SEQ ID NO: 83).

gggtggtgcacgctggccagcacgctcttgtcggagatcagatccgcgtccaggtcctccgcgttgctcagggcgaacggagtcaacttt
ggtagctgccttcccaaaaagggcgcgtgcccaggctttgagttgcactcgcaccgtagtggcatcaaaaggtgaccgtgcccggtctgg
gcgttaggatacagcgcctgcataaaagccttgatctgcttaaaagccacctgagcctttgcgccttcagagaagaacatgccgcaagactt
gccggaaaactgattggccggacaggccgcgtcgtgcacgcagcaccttgcgtcggtgttggagatctgcaccacatttcggccccacc
ggttcttcacgatcttggccttgctagactgctccttcagcgcgcgctgcccgttttcgctcgtcacatccatttcaatcacgtgctccttatttat
cataatgcttccgtgtagacacttaagctcgccttcgatctcagcgcagcggtgcagccacaacgcgcagcccgtgggctcgtgatgcttgt
aggtcacctctgcaaacgactgcaggtacgcctgcaggaatcgccccatcatcgtcacaaaggtcttgttgctggtgaaggtcagctgcaa
cccgcggtgctcctcgttcagccaggtcttgcatacggccgccagagcttccacttggtcaggcagtagtttgaagttcgcctttagatcgtt
atccacgtggtacttgtccatcagcgcgcgcgcagcctccatgcccttctcccacgcagacacgatcggcacactcagcgggttcatcacc
gtaatttcactttccgcttcgctgggctcttcctcttcctcttgcgtccgcataccacgcgccactgggtcgtcttcattcagccgccgcactgtg
cgcttacctcctttgccatgcttgattagcaccggtgggttgctgaaacccaccatttgtagcgccacatcttctctttcttcctcgctgtccacg
attacctctggtgatggcgggcgctcgggcttgggagaagggcgcttcttttttcttcttgggcgcaatggccaaatccgccgccgaggtcg
atggccgcgggctgggtgtgcgcggcaccagcgcgtcttgtgatgagtcttcctcgtcctcggactcgatacgccgcctcatccgcttttttg
ggggcgcccggggaggcggcggcgacggggacggggacgacacgtcctccatggttgggggacgtcgcgccgcaccgcgtccgc
gctcgggggtggtttcgcgctgctcctcttcccgactggccatttccttctcctataggcagaaaaagatcatggagtcagtcgagaagaag
gacagcctaaccgcccccctctgagttcgccaccaccgcctccaccgatgccgccaacgcgcctaccaccttccccgtcgaggcacccccc
gcttgaggaggaggaagtgattatcgagcaggacccaggttttgtaagcgaagacgacgaggaccgctcagtaccaacagaggataaaa
agcaagaccaggacaacgcagaggcaaacgaggaacaagtcgggcgggggggacgaaaggcatggcgactacctagatgtgggaga
cgacgtgctgttgaagcatctgcagcgccagtgcgccattatctgcgacgcgttgcaagagcgcagcgatgtgcccctcgccatagcgga
tgtcagccttgcctacgaacgccacctattctcaccgcgcgtaccccccaaacgccaagaaaacggcacatgcgagcccaacccgcgcc
tcaacttctaccccgtatttgccgtgccagaggtgcttgccacctatcacatctttttccaaaactgcaagatacccctatcctgccgtgccaac
cgcagccgagcggacaagcagctggccttgcggcagggcgctgtcatacctgatatcgcctcgctcaacgaagtgccaaaaatctttgag
ggtcttggacgcgacgagaagcgcgcggcaaacgctctgcaacaggaaaacagcgaaaatgaaagtcactctggagtgttggtggaact
cgagggtgacaacgcgcgcctagccgtactaaaacgcagcatcgaggtcacccactttgcctacccggcacttaacctaccccccaaggt
catgagcacagtcatgagtgagctgatcgtgcgccgtgcgcagcccctggagagggatgcaaatttgcaagaacaaacagaggagggc
ctacccgcagttggcgacgagcagctagcgcgctggcttcaaacgcgcgagcctgccgacttggaggagcgacgcaaactaatgatgg
ccgcagtgctcgttaccgtggagcttgagtgcatgcagcggttctttgctgacccggagatgcagcgcaagctagaggaaacattgcacta
cacctttcgacagggctacgtacgccaggcctgcaagatctccaacgtggagctctgcaacctggtctcctaccttggaattttgcacgaaa
accgccttgggcaaaacgtgcttcattccacgctcaagggcgaggcgcgccgcgactacgtccgcgactgcgtttacttatttctatgctac
acctggcagacggccatgggcgtttggcagcagtgcttggaggagtgcaacctcaaggagctgcagaaactgctaaagcaaaacttgaa
ggacctatggacggccttcaacgagcgctccgtggccgcgcacctggcggacatcattttccccgaacgcctgcttaaaaccctgcaaca
gggtctgccagacttcaccagtcaaagcatgttgcagaactttaggaactttatcctagagcgctcaggaatcttgcccgccacctgctgtgc
acttcctagcgactttgtgcccattaagtaccgcgaatgccctccgccgctttggggccactgctaccttctgcagctagccaactaccttgcc
taccactctgacataatggaagacgtgagcggtgacggtctactggagtgtcactgtcgctgcaacctatgcaccccgcaccgctccctgg
tttgcaattcgcagctgcttaacgaaagtcaaattatcggtacctttgagctgcagggtccctcgcctgacgaaaagtccgcggctccgggg
ttgaaactcactccggggctgtggacgtcggcttaccttcgcaaatttgtacctgaggactaccacgcccacgagattaggttctacgaaga
ccaatcccgcccgccaaatgcggagcttaccgcctgcgtcattacccagggccacattcttggccaattgcaagccatcaacaaagcccg
ccaagagtttctgctacgaaagggacggggggtttacttggacccccagtccggcgaggagctcaacccaatccccccgccgccgcagc
cctatcagcagcagccgcgggcccttgcttcccaggatggcacccaaaaagaagctgcagctgccgccgccacccacggacgaggag
gaatactgggacagtcaggcagaggaggttttggacgaggaggaggaggacatgatggaagactgggagagcctagacgaggaagct
tccgaggtcgaagaggtgtcagacgaaacaccgtcaccctcggtcgcattcccctcgccggcgccccagaaatcggcaaccggttccag
catggctacaacctccgctcctcaggcgccgccggcactgcccgttcgccgacccaaccgtagatgggacaccactggaaccagggcc
ggtaagtccaagcagccgccgccgttagcccaagagcaacaacagcgccaaggctaccgctcatggc

Table 6 (continued) Nucleotide sequence of pAd/CMV/V5-DEST (SEQ ID NO: 83).

gcgggcacaagaacgccatagttgcttgcttgcaagactgtgggggcaacatctccttcgcccgccgctttcttctctaccatcacggcgtg
gccttcccccgtaacatcctgcattactaccgtcatctctacagcccatactgcaccggcggcagcggcagcggcagcaacagcagcggc
cacacagaagcaaaggcgaccggatagcaagactctgacaaagcccaagaaatccacagcggcggcagcagcaggaggaggagcg
ctgcgtctggcgcccaacgaacccgtatcgacccgcgagcttagaaacaggatttttcccactctgtatgctatatttcaacagagcagggg
ccaagaacaagagctgaaaataaaaaacaggtctctgcgatccctcacccgcagctgcctgtatcacaaaagcgaagatcagcttcggcg
cacgctggaagacgcggaggctctcttcagtaaatactgcgcgctgactcttaaggactagtttcgcgccctttctcaaatttaagcgcgaaa
actacgtcatctccagcggccacacccggcgccagcacctgtcgtcagcgccattatgagcaaggaaattcccacgccctacatgtggag
ttaccagccacaaatgggacttgcggctggagctgcccaagactactcaacccgaataaactacatgagcgcgggaccccacatgatatc
ccgggtcaacggaatccgcgcccaccgaaaccgaattctcttggaacaggcggctattaccaccacacctcgtaataaccttaatccccgt
agttggcccgctgccctggtgtaccaggaaagtcccgctcccaccactgtggtacttcccagagacgcccaggccgaagttcagatgact
aactcaggggcgcagcttgcgggcggctttcgtcacagggtgcggtcgcccgggcagggtataactcacctgacaatcagagggcgag
gtattcagctcaacgacgagtcggtgagctcctcgcttggtctccgtccggacgggacatttcagatcggcggcgccggccgtccttcattc
acgcctcgtcaggcaatcctaactctgcagacctcgtcctctgagccgcgctctggaggcattggaactctgcaatttattgaggagtttgtg
ccatcggtctactttaaccccttctcgggacctcccggccactatccggatcaatttattcctaactttgacgcggtaaaggactcggcggac
ggctacgactgaatgttaagtggagaggcagagcaactgcgcctgaaacacctggtccactgtcgccgccacaagtgctttgcccgcgac
tccggtgagttttgctactttgaattgcccgaggatcatatcgagggcccggcgcacggcgtccggcttaccgcccagggagagcttgccc
gtagcctgattcgggagtttacccagcgccccctgctagttgagcgggacaggggaccctgtgttctcactgtgatttgcaactgtcctaacc
ttggattacatcaagatctttgttgccatctctgtgctgagtataataaatacagaaattaaaatatactggggctcctatcgccatcctgtaaac
gccaccgtcttcacccgcccaagcaaaccaaggcgaaccttacctggtacttttaacatctctccctctgtgatttacaacagtttcaacccag
acggagtgagtctacgagagaacctctccgagctcagctactccatcagaaaaacaccaccctccttacctgccgggaacgtacgagtg
cgtcaccggccgctgcaccacacctaccgcctgaccgtaaaccagactttttccggacagacctcaataactctgtttaccagaacaggag
gtgagcttagaaaacccttagggtattaggccaaaggcgcagctactgtggggtttatgaacaattcaagcaactctacgggctattctaatt
caggtttctctagaaatggacggaattattacagagcagcgcctgctagaaagacgcagggcagcggccgagcaacagcgcatgaatca
agagctccaagacatggttaacttgcaccagtgcaaaaggggtatcttttgtctggtaaagcaggccaaagtcacctacgacagtaatacca
ccggacaccgccttagctacaagttgccaaccaagcgtcagaaattggtggtcatggtgggagaaaagcccattaccataactcagcactc
ggtagaaaccgaaggctgcattcactcaccttgtcaaggacctgaggatctctgcacccttattaagaccctgtgcggtctcaaagatcttatt
cccttta actaataaaaaaaaataataaagcatcacttacttaaaatcagttagcaaatttctgtccagtttattcagcagcacctccttgccctcc
tcccagctctggtattgcagcttcctcctggctgcaaactttctccacaatctaaatggaatgtcagtttcctcctgttcctgtccatccgcaccc
actatcttcatgttgttgcagatgaagcgcgcaagaccgtctgaagataccttcaaccccgtgtatccatatgacacggaaaccggtcctcca
actgtgccttttcttactcctccctttgtatcccccaatgggtttcaagagagtccccctggggtactctctttgcgcctatccgaacctctagtta
cctccaatggcatgcttgcgctcaaaatgggcaacggcctctctctggacgaggccggcaaccttacctcccaaaatgtaaccactgtgag
cccacctctcaaaaaaaccaagtcaaacataaacctggaaatatctgcacccctcacagttacctcagaagccctaactgtggctgccgcc
gcacctctaatggtcgcgggcaacacactcaccatgcaatcacaggccccgctaaccgtgcacgactccaaacttagcattgccacccaa
ggacccctcacagtgtcagaaggaaagctagccctgcaaacatcaggcccctcaccaccaccgatagcagtacccttactatcactgcct
cacccccctctaactactgccactggtagcttgggcattgacttgaaagagcccatttatacacaaaatggaaaactaggactaaagtacggg
gctcctttgcatgtaacagacgacctaaacactttgaccgtagcaactggtccaggtgtgactattaataatacttccttgcaaactaaagttac
tggagccttgggttttgattcacaaggcaatatgcaacttaatgtagcaggaggactaaggattgattctcaaaacagacgccttatacttgat
gttagttatccgtttgatgctcaaaaccaactaaatctaagactaggacagggccctctttttataaactcagcccacaacttggatattaactac
aacaaaggcctttacttgtttacagcttcaaacaattccaaaaagcttgaggttaacctaagcactgccaaggggttgatgtttgacgctacag
ccatagccattaatgcaggagatgggcttgaatttggttcacctaatgcaccaaacacaaatcccctcaaaacaaaaattggccatggccta
gaatttgattcaaacaaggctatggttcctaaactaggaactggccttagttttgacagcacaggtgccattacagtaggaaacaaaaataat
gataagctaactttgtggaccacaccagctccatctcctaactgtagactaaatgcagagaaagatgctaaactcactttggtcttaacaaaat
gtggcagtcaaatacttgctacagtttcagttttggctgttaaaggcagtttggctccaatatctggaacagttcaaag

Table 6 (continued) Nucleotide sequence of pAd/CMV/V5-DEST (SEQ ID NO: 83).

tgctcatcttattataagatttgacgaaaatggagtgctactaaacaattccttcctggacccagaatattggaactttagaaatggagatcttac
tgaaggcacagcctatacaaacgctgttggatttatgcctaacctatcagcttatccaaaatctcacggtaaaactgccaaaagtaacattgtc
agtcaagtttacttaaacggagacaaaactaaacctgtaacactaaccattacactaaacggtacacaggaaacaggagacacaactccaa
gtgcatactctatgtcattttcatgggactggtctggccacaactacattaatgaaatatttgccacatcctcttacactttttcatacattgcccaa
gaataaagaatcgtttgtgttatgtttcaacgtgtttatttttcaattgcagaaaatttcgaatcatttttcattcagtagtatagccccaccaccaca
tagcttatacagatcaccgtaccttaatcaaactcacagaaccctagtattcaacctgccacctccctcccaacacacagagtacacagtcctt
tctccccggctggccttaaaaagcatcatatcatgggtaacagacatattcttaggtgttatattccacacggtttcctgtcgagccaaacgctc
atcagtgatattaataaactccccgggcagctcacttaagttcatgtcgctgtccagctgctgagccacaggctgctgtccaacttgcggttgc
ttaacgggcggcgaaggagaagtccacgcctacatgggggtagagtcataatcgtgcatcaggatagggcggtggtgctgcagcagcg
cgcgaataaactgctgccgccgccgctccgtcctgcaggaatacaacatggcagtggtctcctcagcgatgattcgcaccgcccgcagca
taaggcgccttgtcctccgggcacagcagcgcaccctgatctcacttaaatcagcacagtaactgcagcacagcaccacaatattgttcaaa
atcccacagtgcaaggcgctgtatccaaagctcatggcggggaccacagaacccacgtggccatcataccacaagcgcaggtagattaa
gtggcgacccctcataaacacgctggacataaacattacctcttttggcatgttgtaattcaccacctcccggtaccatataaacctctgattaa
acatggcgccatccaccaccatcctaaaccagctggccaaaacctgcccgccggctatacactgcagggaaccgggactggaacaatga
cagtggagagcccaggactcgtaaccatggatcatcatgctcgtcatgatatcaatgttggcacaacacaggcacacgtgcatacacttcct
caggattacaagctcctcccgcgttagaaccatatcccagggaacaacccattcctgaatcagcgtaaatcccacactgcagggaagacct
cgcacgtaactcacgttgtgcattgtcaaagtgttacattcgggcagcagcggatgatcctccagtatggtagcgcgggtttctgtctcaaaa
ggaggtagacgatccctactgtacggagtgcgccgagacaaccgagatcgtgttggtcgtagtgtcatgccaaatggaacgccggacgt
agtcatatttcctgaagcaaaaccaggtgcgggcgtgacaaacagatctgcgtctccggtctcgccgcttagatcgctctgtgtagtagttgt
agtatatccactctctcaaagcatccaggcgccccctggcttcgggttctatgtaaactccttcatgcgccgctgccctgataacatccaccac
cgcagaataagccacacccagccaacctacacattcgttctgcgagtcacacacgggaggagcgggaagagctggaagaaccatgttttt
ttttttattccaaaagattatccaaaacctcaaaatgaagatctattaagtgaacgcgctcccctccggtggcgtggtcaaactctacagccaa
agaacagataatggcatttgtaagatgttgcacaatggcttccaaaaggcaaacggccctcacgtccaagtggacgtaaaggctaaaccct
tcagggtgaatctcctctataaacattccagcaccttcaaccatgcccaaataattctcatctcgccaccttctcaatatatctctaagcaaatcc
cgaatattaagtccggccattgtaaaaatctgctccagagcgccctccaccttcagcctcaagcagcgaatcatgattgcaaaaattcaggtt
cctcacagacctgtataagattcaaaagcggaacattaacaaaaataccgcgatcccgtaggtcccttcgcagggccagctgaacataatc
gtgcaggtctgcacggaccagcgcggccacttccccgccaggaaccttgacaaaagaacccacactgattatgacacgcatactcggag
ctatgctaaccagcgtagccccgatgtaagctttgttgcatgggcggcgatataaaatgcaaggtgctgctcaaaaaatcaggcaaagcctc
gcgcaaaaaagaaagcacatcgtagtcatgctcatgcagataaaggcaggtaagctccggaaccaccacagaaaaagacaccatttttct
ctcaaacatgtctgcgggtttctgcataaacacaaaataaaataacaaaaaaacatttaaacattagaagcctgtcttacaacaggaaaaaca
acccttataagcataagacggactacggccatgccggcgtgaccgtaaaaaaactggtcaccgtgattaaaaagcaccaccgacagctcc
tcggtcatgtccggagtcataatgtaagactcggtaaacacatcaggttgattcacatcggtcagtgctaaaaagcgaccgaaatagcccgg
gggaatacatacccgcaggcgtagagacaacattacagcccccataggaggtataacaaaattaataggagagaaaaacacataaacac
ctgaaaaaccctcctgcctaggcaaaatagcaccctcccgctccagaacaacatacagcgcttccacagcggcagccataacagtcagcc
ttaccagtaaaaaagaaaacctattaaaaaaacaccactcgacacggcaccagctcaatcagtcacagtgtaaaaaagggccaagtgcag
agcgagtatatataggactaaaaaatgacgtaacggttaaagtccacaaaaaacacccagaaaaccgcacgcgaacctacgcccagaaa
cgaaagccaaaaaacccacaacttcctcaaatcgtcacttccgttttcccacgttacgtcacttcccattttaagaaaactacaattcccaacac
atacaagttactccgccctaaaacctacgtcacccgccccgttcccacgccccgcgccacgtcacaaactccaccccctcattatcatattg
gcttcaatccaaaataaggtatattattgatgatgttaattaatttaaatccgcatgcgatatcgagctctcccgggaattcggatctgcgacgc
gaggctggatggccttccccattatgattcttctcgcttccggcggcatcgggatgcccgcgttgcaggccatgctgtccaggcaggtagat
gacgaccatcagggacagcttcacggccagcaaaaggccaggaaccgtaaaaaggccgcgttgctggcgtttttccataggctccgccc
ccctgacgagcatcacaaaaatcgacgctcaagtcagaggtggcgaaacccgacaggactataaagataccaggcgtttccccctggaa
gctccctcgtgcgctctcctgttccgaccctgccgcttaccggatacctgtccgcctttctcccttcgggaagc

Table 6 (continued) Nucleotide sequence of pAd/CMV/V5-DEST (SEQ ID NO: 83).

gtggcgctttctcaatgctcacgctgtaggtatctcagttcggtgtaggtcgttcgctccaagctgggctgtgtgcacgaaccccccgttcag
cccgaccgctgcgccttatccggtaactatcgtcttgagtccaacccggtaagacacgacttatcgccactggcagcagccactggtaaca
ggattagcagagcgaggtatgtaggcggtgctacagagttcttgaagtggtggcctaactacggctacactagaaggacagtatttggtatc
tgcgctctgctgaagccagttaccttcggaaaaagagttggtagctcttgatccggcaaacaaaccaccgctggtagcggtggtttttttgttt
gcaagcagcagattacgcgcagaaaaaaaggatctcaagaagatcctttgatcttttctacggggtctgacgctcagtggaacgaaaactc
acgttaagggattttggtcatgagattatcaaaaaggatcttcacctagatccttttaaatcaatctaaagtatatatgagtaaacttggtctgaca
gttaccaatgcttaatcagtgaggcacctatctcagcgatctgtctatttcgttcatccatagttgcctgactccccgtcgtgtagataactacga
tacgggagggcttaccatctggccccagtgctgcaatgataccgcgagacccacgctcaccggctccagatttatcagcaataaaccagc
cagccggaagggccgagcgcagaagtggtcctgcaactttatccgcctccatccagtctattaattgttgccgggaagctagagtaagtagt
tcgccagttaatagtttgcgcaacgttgttgccattgntgcaggcatcgtggtgtcacgctcgtcgtttggtatggcttcattcagctccggttc
ccaacgatcaaggcgagttacatgatcccccatgttgtgcaaaaaagcggttagctccttcggtcctccgatcgttgtcagaagtaagttggc
cgcagtgttatcactcatggttatggcagcactgcataattctcttactgtcatgccatccgtaagatgcttttctgtgactggtgagtactcaac
caagtcattctgagaatagtgtatgcggcgaccgagttgctcttgcccggcgtcaacacgggataataccgcgccacatagcagaactttaa
aagtgctcatcattggaaaacgttcttcggggcgaaaactctcaaggatcttaccgctgttgagatccagttcgatgtaacccactcgtgcac
ccaactgatcttcagcatcttttactttcaccagcgtttctgggtgagcaaaaacaggaaggcaaaatgccgcaaaaaagggaataagggc
gacacggaaatgttgaatactcatactcttcctttttcaatattattgaagcatttatcagggttattgtctcatgagcggatacatatttgaatgtat
ttagaaaaataaacaaataggggttccgcgcacatttccccgaaaagtgccacctgacgtctaagaaaccattattatcatgacattaacctat
aaaaataggcgtatcacgaggccctttcgtcttcaaggatccgaattcccgggagagctcgatatcgcatgcggatttaaattaattaa

Please amend Table 7 on pages 354-362 as follows:

Table 7: Nucleotide sequence of pAd-GW-TO/tRNA (SEQ ID NO: 84).

catcatcaataatataccttattttggattgaagccaatatgataatgagggggtggagtttgtgacgtggcgcggggcgtgggaacggggc
gggtgacgtagtagtgtggcggaagtgtgatgttgcaagtgtggcggaacacatgtaagcgacggatgtggcaaaagtgacgtttttggtg
tgcgccggtgtacacaggaagtgacaattttcgcgcggttttaggcggatgttgtagtaaatttgggcgtaaccgagtaagatttggccatttt
cgcgggaaaactgaataagaggaagtgaaatctgaataattttgtgttactcatagcgcgtaatatttgtctagggccgcggggactttgacc
gtttacgtggagactcgcccaggtgtttttctcaggtgttttccgcgttccgggtcaaagttggcgttttattattatagtcagtcgaagcttggat
ccggtacctctagaattctcgagcggccgctagcgacatcgatcacaagtttgtacaaaaaagcaggctttaaaggaaccaattcagtcgac
tctagaggatcgaaaccatcctctgctatatggccgcatatattttacttgaagactaggaccctacagaaaaggggttttaaagtaggcgtgc
taaacgtcagcggacctgacccgtgtaagaatccacaaggtatcctggtggaaatgcgcatttgtaggcttcaatatctgtaatcctactaatt
aggtgtggagagctttcagccagtttcgtaggtttggagaccatttaggggttggcgtgtggcccccctcgtaaagtctttcgtacttcctacatc
agacaagtcttgcaatttgcaatatctcttttagccaatatctaaatctttaaaattttgattttgtttttacccaggatgagagacattccagagttg
ttaccttgtcaaaataaacaaatttaaagatgtctgtgaaaagaaacatatattcctcatgggaatatatccaggttgttgaaggaggtacgacc
tcgagatctctatcactgatagggagactcgagtgtagtcgtggccgagtggttaaggcgatggactctaaatccattggggtctccccgcg
caggttcgaatcctgccgactacggcgtgctttttttactctcgggtagaggaaatccggtgcactacctgtgcaatcacacagaataacatg
gagtagtactttttattttcctgttattatctttctccataaaagtggaaccagataattttagttcttttgtgtaacaagactagagatttttgaagtgt
tacattggaaagcacttgaaaacacaagtaatttctgacactgctataaaaatgatggaaaaacgctcaagttgttttgcctttcagtcttcttga
aatgctgtctccctatctgaaatccagctcacgtctgacttccaaaaccgtgcttgcctttaacttatggaataaatatctcaaacagatccccg
ggcgagctcgaattcgcggccgcactcgagatatctagacccagctttcttgtacaaagtggtgatcgattcgacagatcactgaaatgtgt
gggcgtggcttaagggtgggaaagaatatataaggtgggggtcttatgtagttttgtatctgttttgcagcagccgccgccgccatgagcac
caactcgtttgatggaagcattgtgagctcatatttgacaacgcgcatgcccccatgggccggggtgcgtcagaatgtgatgggctccagc
attgatggtcgccccgtcctgcccgcaaactctactaccttgacctacgagaccgtgtctggaacgccgttggagactgcagcctccgccg
ccgcttcagccgctgcagccaccgcccgcgggattgtgactgactttgctttcctgagcccgcttgcaagcagtgcagcttcccgttcatcc
gcccgcgatgacaagttgacggctcttttggcacaattggattctttgacccgggaacttaatgtcgtttctcagcagctgttggatctgcgcc
agcaggtttctgccctgaaggcttcctcccctcccaatgcggtttaaaacataaataaaaaaccagactctgtttggatttggatcaagcaagt
gtcttgctgtctttatttaggggttttgcgcgcgcggtaggcccgggaccagcggtctcggtcgttgagggtcctgtgtatttttccaggacgt
ggtaaaggtgactctggatgttcagatacatgggcataagcccgtctctggggtggaggtagcaccactgcagagcttcatgctgcggggt
ggtgttgtagatgatccagtcgtagcaggagcgctgggcgtggtgcctaaaaatgtctttcagtagcaagctgattgccaggggcaggccc
ttggtgtaagtgtttacaaagcggttaagctgggatgggtgcatacgtggggatatgagatgcatcttggactgtatttttaggttggctatgttc
ccagccatatccctccggggattcatgttgtgcagaaccaccagcacagtgtatccggtgcacttgggaaatttgtcatgtagcttagaagga
aatgcgtggaagaacttggagacgcccttgtgacctccaagattttccatgcattcgtccataatgatggcaatgggcccacgggcggcgg
cctgggcgaagatatttctgggatcactaacgtcatagttgtgttccaggatgagatcgtcataggccatttttacaaagcgcgggcggagg
gtgccagactgcggtataatggttccatccggcccaggggcgtagttaccctcacagatttgcatttcccacgctttgagttcagatggggg
gatcatgtctacctgcggggcgatgaagaaaacggtttccggggtaggggagatcagctgggaagaaagcaggttcctgagcagctgcg
acttaccgcagccggtgggcccgtaaatcacacctattaccgggtgcaactggtagttaagagagctgcagctgccgtcatccctgagcag
gggggccacttcgttaagcatgtccctgactcgcatgttttccctgaccaaatccgccagaaggcgctcgccgcccagcgatagcagttctt
gcaaggaagcaaagtttttcaacggtttgagaccgtccgccgtaggcatgcttttgagcgtttgaccaagcagttccaggcggtcccacagc
tcggtcacctgctctacggcatctcgatccagcatatctcctcgtttcgcgggttggggcggctttcgctgtacggcagtagtcggtgctcgt
ccagacgggccagggtcatgtctttccacgggcgcagggtcctcgtcagcgtagtctgggtcacggtgaaggggtgcgctccgggctgc
gcgctggccagggtgcgcttgaggctggtcctgctggtgctgaagcgctgccggtcttcgccctgcgcgtcggccaggtagcatttgacc
atggtgtcatagtccagcccctccgcggcgtggcccttggcgcgcagcttgcccttggaggaggcgccgcacgaggggcagtgcagac
ttttgagggcgtagagcttgggcgcgagaaataccgattccggggagtaggcatccgcgccgcaggccccgcagacggtctcgcattcc
acgagccaggtgagctctggccgttcggggtcaaaaaccaggtttcccccatgctttttgatgcgtttcttacctctggtttccatgagccggt
gtccacgctcggtgacgaaaaggctgtccgtgtccccgtatacagacttgagaggcctgtcctcgagcggtgttccgcggtcctcctcgtat
agaaactcggaccactctgagacaaaggctcgcgtccaggccagcacgaaggaggctaagtgggagg

Table 7 (continued) Nucleotide sequence of pAd-GW-TO/tRNA (SEQ ID NO: 84).

ggtagcggtcgttgtccactagggggtccactcgctccagggtgtgaagacacatgtcgccctcttcggcatcaaggaaggtgattggtttg
taggtgtaggccacgtgaccgggtgttcctgaaggggggctataaaagggggtgggggcgcgttcgtcctcactctcttccgcatcgctgt
ctgcgagggccagctgttggggtgagtactccctctgaaaagcgggcatgacttctgcgctaagattgtcagtttccaaaaacgaggagga
tttgatattcacctggcccgcggtgatgcctttgagggtggccgcatccatctggtcagaaaagacaatctttttgttgtcaagcttggtggca
aacgacccgtagagggcgttggacagcaacttggcgatggagcgcagggtttggtttttgtcgcgatcggcgcgctccttggccgcgatg
tttagctgcacgtattcgcgcgcaacgcaccgccattcgggaaagacggtggtgcgctcgtcgggcaccaggtgcacgcgccaaccgcg
gttgtgcagggtgacaaggtcaacgctggtggctacctctccgcgtaggcgctcgttggtccagcagaggcggccgcccttgcgcgagc
agaatggcggtagggggtctagctgcgtctcgtccggggggtctgcgtccacggtaaagaccccgggcagcaggcgcgcgtcgaagta
gtctatcttgcatccttgcaagtctagcgcctgctgccatgcgcgggcggcaagcgcgcgctcgtatgggttgagtgggggaccccatgg
catggggtgggtgagcgcggaggcgtacatgccgcaaatgtcgtaaacgtagaggggctctctgagtattccaagatatgtagggtagca
tcttccaccgcggatgctggcgcgcacgtaatcgtatagttcgtgcgagggagcgaggaggtcgggaccgaggttgctacgggcgggct
gctctgctcggaagactatctgcctgaagatggcatgtgagttggatgatatggttggacgctggaagacgttgaagctggcgtctgtgaga
cctaccgcgtcacgcacgaaggaggcgtaggagtcgcgcagcttgttgaccagctcggcggtgacctgcacgtctagggcgcagtagtc
cagggtttccttgatgatgtcatacttatcctgtcccttttttttccacagctcgcggttgaggacaaactcttcgcggtctttccagtactcttgga
tcggaaacccgtcggcctccgaacggtaagagcctagcatgtagaactggttgacggcctggtaggcgcagcatcccttttctacgggtag
cgcgtatgcctgcgcggccttccggagcgaggtgtgggtgagcgcaaaggtgtccctgaccatgactttgaggtactggtatttgaagtca
gtgtcgtcgcatccgccctgctcccagagcaaaaagtccgtgcgctttttggaacgcggatttggcagggcgaaggtgacatcgttgaaga
gtatctttcccgcgcgaggcataaagttgcgtgtgatgcggaagggtcccggcacctcggaacggttgttaattacctgggcggcgagca
cgatctcgtcaaagccgttgatgttgtggcccacaatgtaaagttccaagaagcgcgggatgcccttgatggaaggcaattttttaagttcctc
gtaggtgagctcttcaggggagctgagcccgtgctctgaaagggcccagtctgcaagatgagggttggaagcgacgaatgagctccaca
ggtcacgggccattagcatttgcaggtggtcgcgaaaggtcctaaactggcgacctatggccattttttctggggtgatgcagtagaaggta
agcgggtcttgttcccagcggtcccatccaaggttcgcggctaggtctcgcgcggcagtcactagaggctcatctccgccgaacttcatga
ccagcatgaagggcacgagctgcttcccaaaggcccccatccaagtataggtctctacatcgtaggtgacaaagagacgctcggtgcga
ggatgcgagccgatcgggaagaactggatctcccgccaccaattggaggagtggctattgatgtggtgaaagtagaagtccctgcgacg
ggccgaacactcgtgctggcttttgtaaaaacgtgcgcagtactggcagcggtgcacgggctgtacatcctgcacgaggttgacctgacg
accgcgcacaaggaagcagagtgggaatttgagcccctcgcctggcgggtttggctggtggtcttctacttcggctgcttgtccttgaccgt
ctggctgctcgaggggagttacggtggatcggaccaccacgccgcgcgagcccaaagtccagatgtccgcgcgcggcggtcggagctt
gatgacaacatcgcgcagatgggagctgtccatggtctggagctcccgcggcgtcaggtcaggcgggagctcctgcaggtttacctcgc
atagacgggtcagggcgcgggctagatccaggtgatacctaatttccaggggctggttggtggcggcgtcgatggcttgcaagaggccg
catccccgcggcgcgactacggtaccgcgcggcgggcggtgggccgcgggggtgtccttggatgatgcatctaaaagcggtgacgcg
ggcgagcccccggaggtagggggggctccggacccgccgggagagggggcaggggcacgtcggcgccgcgcgcgggcaggag
ctggtgctgcgcgcgtaggttgctggcgaacgcgacgacgcggcggttgatctcctgaatctggcgcctctgcgtgaagacgacgggcc
cggtgagcttgagcctgaaagagagttcgacagaatcaatttcggtgtcgttgacggcggcctggcgcaaaatctcctgcacgtctcctga
gttgtcttgataggcgatctcggccatgaactgctcgatctcttcctcctggagatctccgcgtccggctcgctccacggtggcggcgaggt
cgttggaaatgcgggccatgagctgcgagaaggcgttgaggcctccctcgttccagacgcggctgtagaccacgccccettcggcatcg
cgggcgcgcatgaccacctgcgcgagattgagctccacgtgccgggcgaagacggcgtagtttcgcaggcgctgaaagaggtagttga
gggtggtggcggtgtgttctgccacgaagaagtacataacccagcgtcgcaacgtggattcgttgatatcccccaaggcctcaaggcgctc
catggcctcgtagaagtccacggcgaagttgaaaaactgggagttgcgcgccgacacggttaactcctcctccagaagacggatgagctc
ggcgacagtgtcgcgcacctcgcgctcaaaggctacaggggcctcttcttcttcttcaatctcctcttccataagggcctccccttcttcttcttc
tggcggcggtgggggaggggggacacggcggcgacgacggcgcaccgggaggcggtcgacaaagcgctcgatcatctccccgcg
gcgacggcgcatggtctcggtgacggcgcggccgttctcgcgggggcgcagttggaagacgccgcccgtcatgtcccggttatgggttg
gcgggggctgccatgcggcagggatacggcgctaacgatgcatctcaacaattgttgtgtaggtactccgccgccgagggacctgagc
gagtccgcatcgaccggatcggaaaacctctcgagaaaggcgtctaaccagtcacagtcgcaaggtagg

Table 7 (continued) Nucleotide sequence of pAd-GW-TO/tRNA (SEQ ID NO: 84).

ctgagcaccgtggcgggcggcagcgggcggcggtcggggttgtttctggcggaggtgctgctgatgatgtaattaaagtaggcggtcttg
agacggcggatggtcgacagaagcaccatgtccttgggtccggcctgctgaatgcgcaggcggtcggccatgccccaggcttcgttttga
catcggcgcaggtctttgtagtagtcttgcatgagcctttctaccggcacttcttcttctccttcctcttgtcctgcatctcttgcatctatcgctgc
ggcggcggcggagtttggccgtaggtggcgccctcttcctcccatgcgtgtgaccccgaagcccctcatcggctgaagcagggctaggt
cggcgacaacgcgctcggctaatatggcctgctgcacctgcgtgagggtagactggaagtcatccatgtccacaaagcggtggtatgcgc
ccgtgttgatggtgtaagtgcagttggccataacggaccagttaacggtctggtgacccggctgcgagagctcggtgtacctgagacgcg
agtaagccctcgagtcaaatacgtagtcgttgcaagtccgcaccaggtactggtatcccaccaaaaagtgcggcggcggctggcggtaga
ggggccagcgtagggtggccggggctccgggggcgagatcttccaacataaggcgatgatatccgtagatgtacctggacatccaggtg
atgccggcggcggtggtggaggcgcgcggaaagtcgcggacgcggttccagatgttgcgcagcggcaaaaagtgctccatggtcggg
acgctctggccggtcaggcgcgcgcaatcgttgacgctctagaccgtgcaaaaggagagcctgtaagcgggcactcttccgtggtctggt
ggataaattcgcaagggtatcatggcggacgaccggggttcgagccccgtatccggccgtccgccgtgatccatgcggttaccgcccgc
gtgtcgaacccaggtgtgcgacgtcagacaacgggggagtgctccttttggcttccttccaggcgcggcggctgctgcgctagcttttttgg
ccactggccgcgcgcagcgtaagcggttaggctggaaagcgaaagcattaagtggctcgctccctgtagccggagggttattttccaagg
gttgagtcgcgggacccccggttcgagtctcggaccggccggactgcggcgaacgggggtttgcctccccgtcatgcaagaccccgctt
gcaaattcctccggaaacagggacgagcccctttttttgcttttcccagatgcatccggtgctgcggcagatgcgcccccctcctcagcagcg
gcaagagcaagagcagcggcagacatgcagggcaccctcccctcctcctaccgcgtcaggaggggcgacatccgcggttgacgcggc
agcagatggtgattacgaaccccgcggcgccgggcccggcactacctggacttggaggagggcgagggcctggcgcggctaggag
cgccctctcctgagcggtacccaagggtgcagctgaagcgtgatacgcgtgaggcgtacgtgccgcggcagaacctgtttcgcgaccgc
gagggagaggagcccgaggagatgcgggatcgaaagttccacgcagggcgcgagctgcggcatggcctgaatcgcgagcggttgct
gcgcgaggaggactttgagcccgacgcgcgaaccgggattagtcccgcgcgcgcacacgtggcggccgccgacctggtaaccgcata
cgagcagacggtgaaccaggagattaactttcaaaaaagctttaacaaccacgtgcgtacgcttgtggcgcgcgaggaggtggctatagg
actgatgcatctgtgggactttgtaagcgcgctggagcaaaacccaaatagcaagccgctcatggcgcagctgttccttatagtgcagcac
agcagggacaacgaggcattcagggatgcgctgctaaacatagtagagcccgagggccgctggctgctcgatttgataaacatcctgca
gagcatagtggtgcaggagcgcagcttgagcctggctgacaaggtggccgccatcaactattccatgcttagcctgggcaagttttacgcc
cgcaagatataccataccccttacgttcccatagacaaggaggtaaagatcgaggggttctacatgcgcatggcgctgaaggtgcttacctt
gagcgacgacctgggcgtttatcgcaacgagcgcatccacaaggccgtgagcgtgagccggcggcgcgagctcagcgaccgcgagct
gatgcacagcctgcaaagggccctggctggcacgggcagcggcgatagagaggccgagtcctactttgacgcgggcgctgacctgcg
ctgggccccaagccgacgcgccctggaggcagctggggccggacctgggctggcggtggcacccgcgcgcgctggcaacgtcggc
ggcgtggaggaatatgacgaggacgatgagtacgagccagaggacggcgagtactaagcggtgatgtttctgatcagatgatgcaagac
gcaacggacccggcggtgcgggcggcgctgcagagccagccgtccggccttaactccacggacgactggcgccaggtcatggaccg
catcatgtcgctgactgcgcgcaatcctgacgcgttccggcagcagccgcaggccaaccggctctccgcaattctggaagcggtggtccc
ggcgcgcgcaaaccccacgcacgagaaggtgctggcgatcgtaaacgcgctggccgaaaacagggccatccggcccgacgaggcc
ggcctggtctacgacgcgctgcttcagcgcgtggctcgttacaacagcggcaacgtgcagaccaacctggaccggctggtgggggatgt
gcgcgaggccgtggcgcagcgtgagcgcgcgcagcagcagggcaacctgggctccatggttgcactaaacgccttcctgagtacacag
cccgccaacgtgccgcggggacaggaggactacaccaactttgtgagcgcactgcggctaatggtgactgagacaccgcaaagtgagg
tgtaccagtctgggccagactatttttttccagaccagtagacaaggcctgcagaccgtaaacctgagccaggctttcaaaaacttgcagggg
ctgtgggggtgcgggctcccacaggcgaccgcgcgaccgtgtctagcttgctgacgcccaactcgcgcctgttgctgctgctaatagcg
cccttcacggacagtggcagcgtgtcccgggacacatacctaggtcacttgctgacactgtaccgcgaggccataggtcaggcgcatgtg
gacgagcatactttccaggagattacaagtgtcagccgcgcgctggggcaggaggacacgggcagcctggaggcaaccctaaactacc
tgctgaccaaccggcggcagaagatcccctcgttgcacagtttaaacagcgaggaggagcgcattttgcgctacgtgcagcagagcgtg
agccttaacctgatgcgcgacggggtaacgcccagcgtggcgctggacatgaccgcgcgcaacatggaaccgggcatgtatgcctcaa
accggccgtttatcaaccgcctaatggactacttgcatcgcgcggccgccgtgaaccccgagtatttcaccaatgccatcttgaacccgcac
tggctaccgccccctggtttctacaccgggggattcgaggtgcccgagggtaacgatggattcctctggg

Table 7 (continued) Nucleotide sequence of pAd-GW-TO/tRNA (SEQ ID NO: 84).

acgacatagacgacagcgtgttttccccgcaaccgcagaccctgctagagttgcaacagcgcgagcaggcagaggcggcgctgcgaaa
ggaaagcttccgcaggccaagcagcttgtccgatctaggcgctgcggccccgcggtcagatgctagtagcccatttccaagcttgatagg
gtctcttaccagcactcgcaccacccgcccgcgcctgctgggcgaggaggagtacctaaacaactcgctgctgcagccgcagcgcgaa
aaaaacctgcctccggcatttcccaacaacgggatagagagcctagtggacaagatgagtagatggaagacgtacgcgcaggagcaca
gggacgtgccaggcccgcgcccgcccacccgtcgtcaaaggcacgaccgtcagcggggtctggtgtgggaggacgatgactcggca
gacgacagcagcgtcctggatttgggagggagtggcaacccgtttgcgcaccttcgccccaggctggggagaatgttttaaaaaaaaaa
agcatgatgcaaaataaaaaactcaccaaggccatggcaccgagcgttggttttcttgtattccccttagtatgcggcgcgcggcgatgtatg
aggaaggtcctcctccctcctacgagagtgtggtgagcgcggcgccagtggcggcggcgctgggttctcccttcgatgctcccctggacc
cgccgtttgtgcctccgcggtacctgcggcctaccggggggagaaacagcatccgttactctgagttggcacccctattcgacacccacccg
tgtgtacctggtggacaacaagtcaacggatgtggcatccctgaactaccagaacgaccacagcaactttctgaccacggtcattcaaaac
aatgactacagcccgggggaggcaagcacacagaccatcaatcttgacgaccggtcgcactggggcggcgacctgaaaaccatcctgc
ataccaacatgccaaatgtgaacgagttcatgtttaccaataagtttaaggcgcgggtgatggtgtcgcgcttgcctactaaggacaatcagg
tggagctgaaatacgagtgggtggagttcacgctgcccgagggcaactactccgagaccatgaccatagaccttatgaacaacgcgatcg
tggagcactacttgaaagtgggcagacagaacggggttctggaaagcgacatcggggtaaagtttgacacccgcaacttcagactgggg
tttgaccccgtcactggtcttgtcatgcctggggtatatacaaacgaagccttccatccagacatcattttgctgccaggatgcggggtggact
tcacccacagccgcctgagcaacttgttgggcatccgcaagcggcaacccttccaggagggctttaggatcacctacgatgatctggagg
gtggtaacattcccgcactgttggatgtggacgcctaccaggcgagcttgaaagatgacaccgaacagggcgggggtggcgcaggcgg
cagcaacagcagtggcagcggcgcggaagagaactccaacgcggcagccgcggcaatgcagccggtggaggacatgaacgatcatg
ccattcgcggcgacacctttgccacacgggctgaggagaagcgcgctgaggccgaagcagcggccgaagctgccgcccccgctgcgc
aacccgaggtcgagaagcctcagaagaaaccggtgatcaaacccctgacagaggacagcaagaaacgcagttacaacctaataagcaa
tgacagcaccttcacccagtaccgcagctggtaccttgcatacaactacggcgaccctcagaccggaatccgctcatggaccctgctttgc
actcctgacgtaacctgcggctcggagcaggtctactggtcgttgccagacatgatgcaagaccccgtgaccttccgctccacgcgccag
atcagcaactttccggtggtgggcgccgagctgttgcccgtgcactccaagagcttctacaacgaccaggccgtctactcccaactcatcc
gccagtttacctctctgacccacgtgttcaatcgctttcccgagaaccagattttggcgcgcccgccagcccccaccatcaccaccgtcagt
gaaaacgttcctgctctcacagatcacgggacgctaccgctgcgcaacagcatcggaggagtccagcgagtgaccattactgacgccag
acgccgcacctgcccctacgtttacaaggccctgggcatagtctcgccgcgcgtcctatcgagccgcactttttgagcaagcatgtccatcc
ttatatcgcccagcaataacacaggctggggcctgcgcttcccaagcaagatgtttggcggggccaagaagcgctccgaccaacaccca
gtgcgcgtgcgcgggcactaccgcgcgccctggggcgcgcacaaacgcggccgcactgggcgcaccaccgtcgatgacgccatcga
cgcggtggtggaggaggcgcgcaactacacgcccacgccgccaccagtgtccacagtggacgcggccattcagaccgtggtgcgcgg
agcccggcgctatgctaaaatgaagagacggcggaggcgcgtagcacgtcgccaccgccgccgacccggcactgccgcccaacgcg
cggcggcggccctgcttaaccgcgcacgtcgcaccggccgacgggcggccatgcgggccgctcgaaggctggccgcgggtattgtca
ctgtgccccccaggtccaggcgacgagcggccgccgcagcagccgcggccattagtgctatgactcagggtcgcaggggcaacgtgta
ttgggtgcgcgactcggttagcggcctgcgcgtgcccgtgcgcacccgccccccgcgcaactagattgcaagaaaaaactacttagactc
gtactgttgtatgtatccagcggcggcggcgcgcaacgaagctatgtccaagcgcaaaatcaaagaagagatgctccaggtcatcgcgcc
ggagatctatggccccccgaagaaggaagagcaggattacaagccccgaaagctaaagcgggtcaaaaagaaaaagaaagatgatgat
gatgaacttgacgacgaggtggaactgctgcacgctaccgcgcccaggcgacgggtacagtggaaaggtcgacgcgtaaaacgtgtttt
gcgacccggcaccaccgtagtctttacgcccggtgagcgctccacccgcacctacaagcgcgtgtatgatgaggtgtacggcgacgagg
acctgcttgagcaggccaacgagcgcctcggggagtttgcctacggaaagcggcataaggacatgctggcgttgccgctggacgaggg
caacccaacacctagcctaaagcccgtaacactgcagcaggtgctgcccgcgcttgcaccgtccgaagaaaagcgcggcctaaagcgc
gagtctggtgacttggcacccaccgtgcagctgatggtacccaagcgccagcgactggaagatgtcttggaaaaaatgaccgtggaacct
gggctggagcccgaggtccgcgtgcggccaatcaagcaggtggcgccgggactgggcgtgcagaccgtggacgttcagatacccact
accagtagcaccagtattgccaccgccacagagggcatggagacacaaacgtccccggttgcctcagcggtggcggatgccgcggtgc
aggcggtcgctgcggccgcgtccaagacctctacggaggtgcaaacggacccgtggatgtttcg

Table 7 (continued) Nucleotide sequence of pAd-GW-TO/tRNA (SEQ ID NO: 84).

cgtttcagccccccggcgcccgcgcggttcgaggaagtacggcgccgccagcgcgctactgcccgaatatgccctacatccttccattgc
gcctacccccggctatcgtggctacacctaccgccccagaagacgagcaactacccgacgccgaaccaccactggaacccgccgccgc
cgtcgccgtcgccagcccgtgctggccccgatttccgtgcgcagggtggctcgcgaaggaggcaggaccctggtgctgccaacagcgc
gctaccaccccagcatcgtttaaaagccggtctttgtggttcttgcagatatggccctcacctgccgcctccgtttcccggtgccgggattcc
gaggaagaatgcaccgtaggaggggcatggccggccacggcctgacgggcggcatgcgtcgtgcgcaccaccggcggcggcgcgc
gtcgcaccgtcgcatgcgcggcggtatcctgcccctccttattccactgatcgccgcggcgattggcgccgtgcccggaattgcatccgtg
gccttgcaggcgcagagacactgattaaaaacaagttgcatgtggaaaaatcaaaataaaaagtctggactctcacgctcgcttggtcctgt
aactattttgtagaatggaagacatcaactttgcgtctctggccccgcgacacggctcgcgcccgttcatgggaaactggcaagatatcggc
accagcaatatgagcggtggcgccttcagctggggctcgctgtggagcggcattaaaaatttcggttccaccgttaagaactatggcagca
aggcctggaacagcagcacaggccagatgctgagggataagttgaaagagcaaaatttccaacaaaaggtggtagatggcctggcctct
ggcattagcggggtggtggacctggccaaccaggcagtgcaaaataagattaacagtaagcttgatccccgccctcccgtagaggagcct
ccaccggccgtggagacagtgtctccagaggggcgtggcgaaaagcgtccgcgccccgacagggaagaaactctggtgacgcaaata
gacgagcctccctcgtacgaggaggcactaaagcaaggcctgcccaccacccgtcccatcgcgcccatggctaccggagtgctgggcc
agcacacacccgtaacgctggacctgcctcccccgccgacacccagcagaaacctgtgctgccaggcccgaccgccgttgttgtaacc
cgtcctagccgcgcgtccctgcgccgcgccgccagcggtccgcgatcgttgcggcccgtagccagtggcaactggcaaagcacactga
acagcatcgtgggtctgggggtgcaatccctgaagcgccgacgatgcttctgaatagctaacgtgtcgtatgtgtgtcatgtatgcgtccatg
tcgccgccagaggagctgctgagccgccgcgcgcccgctttccaagatggctaccccttcgatgatgccgcagtggtcttacatgcacatc
tcgggccaggacgcctcggagtacctgagccccgggctggtgcagtttgcccgcgccaccgagacgtacttcagcctgaataacaagttt
agaaccccacggtggcgcctacgcacgacgtgaccacagaccggtcccagcgtttgacgctgcggttcatccctgtggaccgtgagga
tactgcgtactcgtacaaggcgcggttcaccctagctgtgggtgataaccgtgtgctggacatggcttccacgtactttgacatccgcggcg
tgctggacaggggccctacttttaagccctactctggcactgcctacaacgccctggctcccaagggtgccccaaatccttgcgaatgggat
gaagctgctactgctcttgaaataaacctagaagaagaggacgatgacaacgaagacgaagtagacgagcaagctgagcagcaaaaaa
ctcacgtatttgggcaggcgccttattctggtataaatattacaaaggagggtattcaaataggtgtcgaaggtcaaacacctaaatatgccga
taaaacatttcaacctgaacctcaaataggagaatctcagtggtacgaaactgaaattaatcatgcagctgggagagtccttaaaaagactac
cccaatgaaaccatgttacggttcatatgcaaaacccacaaatgaaaatggagggcaaggcattcttgtaaagcaacaaaatggaaagcta
gaaagtcaagtggaaatgcaatttttctcaactactgaggcgaccgcaggcaatggtgataacttgactcctaaagtggtattgtacagtgaa
gatgtagatatagaaaccccagacactcatatttcttacatgcccactattaaggaaggtaactcacgagaactaatgggccaacaatctatg
cccaacaggcctaattacattgcttttagggacaattttattggtctaatgtattacaacagcacgggtaatatgggtgttctggcgggccaag
catcgcagttgaatgctgttgtagatttgcaagacagaaacacagagctttcataccagcttttgcttgattccattggtgatagaaccaggtac
ttttctatgtggaatcaggctgttgacagctatgatccagatgttagaattattgaaaatcatggaactgaagatgaacttccaaattactgctttc
cactgggaggtgtgattaatacagagactcttaccaaggtaaaacctaaaacaggtcaggaaaatggatgggaaaaagatgctacagaatt
ttcagataaaaatgaaataagagttggaaataattttgccatggaaatcaatctaaatgccaacctgtggagaaatttcctgtactccaacatag
cgctgtatttgcccgacaagctaaagtacagtccttccaacgtaaaaatttctgataacccaaacacctacgactacatgaacaagcgagtg
gtggctcccgggttagtggactgctacattaaccttggagcacgctggtcccttgactatatggacaacgtcaacccatttaaccaccaccgc
aatgctggcctgcgctaccgctcaatgttgctgggcaatggtcgctatgtgcccttccacatccaggtgcctcagaagttctttgccattaaaa
acctccttctcctgccgggctcatacacctacgagtggaacttcaggaaggatgttaacatggttctgcagagctccctaggaaatgacctaa
gggttgacggagccagcattaagtttgatagcatttgcctttacgccaccttcttccccatggcccacaacaccgcctccacgcttgaggcca
tgcttagaaacgacaccaacgaccagtcctttaacgactatctctccgccgccaacatgctctaccctatacccgccaacgctaccaacgtg
cccatatccatcccctcccgcaactgggcggctttccgcggctgggccttcacgcgccttaagactaaggaaaccccatcactgggctcgg
gctacgacccttattacacctactctggctctataccctacctagatggaaccttttacctcaaccacacctttaagaaggtggccattaccttg
actcttctgtcagctggcctggcaatgaccgcctgcttacccccaacgagtttgaaattaagcgctcagttgacggggagggttacaacgtt
gcccagtgtaacatgaccaaagactggttcctggtacaaatgctagctaactacaacattggctaccagggcttctatatcccagagagcta
caaggaccgcatgtactccttctttagaaacttccagcccatgagccgtcaggtggtggatgatacta

Table 7 (continued) Nucleotide sequence of pAd-GW-TO/tRNA (SEQ ID NO: 84).

aatacaaggactaccaacaggtgggcatcctacaccaacacaacaactctggatttgttggctaccttgcccccaccatgcgcgaaggaca
ggcctaccctgctaacttcccctatccgcttataggcaagaccgcagttgacagcattacccagaaaaagtttctttgcgatcgcaccctttgg
cgcatcccattctccagtaactttatgtccatgggcgcactcacagacctgggccaaaccttctctacgccaactccgcccacgcgctaga
catgacttttgaggtggatcccatggacgagcccacccttctttatgttttgtttgaagtctttgacgtggtccgtgtgcaccggccgcaccgc
ggcgtcatcgaaaccgtgtacctgcgcacgcccttctcggccggcaacgccacaacataaagaagcaagcaacatcaacaacagctgcc
gccatgggctccagtgagcaggaactgaaagccattgtcaaagatcttggttgtgggccatatttttgggcacctatgacaagcgctttcca
ggctttgtttctccacacaagctcgcctgcgccatagtcaatacggccggtcgcgagactgggggcgtacactggatggcctttgcctgga
acccgcactcaaaaacatgctacctctttgagccctttggcttttctgaccagcgactcaagcaggtttaccagtttgagtacgagtcactcct
gcgccgtagcgccattgcttcttcccccgaccgctgtataacgctggaaaagtccacccaaagcgtacaggggcccaactcggccgcctg
tggactattctgctgcatgtttctccacgcctttgccaactggccccaaactcccatggatcacaaccccaccatgaaccttattaccgggta
cccaactccatgctcaacagtccccaggtacagcccaccctgcgtcgcaaccaggaacagctctacagcttcctggagcgccactcgccc
tacttccgcagccacagtgcgcagattaggagcgccacttctttttgtcacttgaaaaacatgtaaaaataatgtactagagacactttcaataa
aggcaaatgcttttatttgtacactctcgggtgattatttacccccacccttgccgtctgcgccgtttaaaaatcaaaggggttctgccgcgcat
cgctatgcgccactggcagggacacgttgcgatactggtgtttagtgctccacttaaactcaggcacaaccatccgcggcagctcggtgaa
gttttcactccacaggctgcgcaccatcaccaacgcgtttagcaggtcgggcgccgatatcttgaagtcgcagttggggcctccgccctgc
gcgcgcgagttgcgatacacagggttgcagcactggaacactatcagcgccgggtggtgcacgctggccagcacgctcttgtcggagat
cagatccgcgtccaggtcctccgcgttgctcagggcgaacggagtcaactttggtagctgccttcccaaaaagggcgcgtgcccaggcttt
gagttgcactcgcaccgtagtggcatcaaaaggtgaccgtgcccggtctgggcgttaggatacagcgcctgcataaaagccttgatctgct
taaaagccacctgagcctttgcgccttcagagaagaacatgccgcaagacttgccggaaaactgattggccggacaggccgcgtcgtgc
acgcagcaccttgcgtcggtgttggagatctgcaccacatttcggccccaccggttcttcacgatcttggccttgctagactgctccttcagc
gcgcgctgcccgttttcgctcgtcacatccatttcaatcacgtgctccttatttatcataatgcttccgtgtagacacttaagctcgccttcgatct
cagcgcagcggtgcagccacaacgcgcagcccgtgggctcgtgatgcttgtaggtcacctctgcaaacgactgcaggtacgcctgcagg
aatcgccccatcatcgtcacaaaggtcttgttgctggtgaaggtcagctgcaacccgcggtgctcctcgttcagccaggtcttgcatacggc
cgccagagcttccacttggtcaggcagtagtttgaagttcgcctttagatcgttatccacgtggtacttgtccatcagcgcgcgcgcagcctc
catgcccttctcccacgcagacacgatcggcacactcagcgggttcatcaccgtaatttcactttccgcttcgctgggctcttcctcttcctctt
gcgtccgcataccacgcgccactgggtcgtcttcattcagccgccgcactgtgcgcttacctcctttgccatgcttgattagcaccggtgggt
tgctgaaacccaccatttgtagcgccacatcttctctttcttcctcgctgtccacgattacctctggtgatggcgggcgctcgggcttgggaga
agggcgcttctttttcttcttgggcgcaatggccaaatccgccgccgaggtcgatggccgcgggctgggtgtgcgcggcaccagcgcgtc
ttgtgatgagtcttcctcgtcctcggactcgatacgccgcctcatccgcttttttgggggcgcccggggaggcggcggcgacggggacgg
ggacgacacgtcctccatggttgggggacgtcgcgccgcaccgcgtccgcgctcgggggtggtttcgcgctgctcctcttcccgactggc
catttccttctcctataggcagaaaaagatcatggagtcagtcgagaagaaggacagcctaaccgcccccctctgagttcgccaccaccgcc
tccaccgatgccgccaacgcgcctaccaccttccccgtcgaggcacccccgcttgaggaggaggaagtgattatcgagcaggacccag
gttttgtaagcgaagacgacgaggaccgctcagtaccaacagaggataaaaagcaagaccaggacaacgcagaggcaaacgaggaac
aagtcgggcgggggggacgaaaggcatggcgactacctagatgtgggagacgacgtgctgttgaagcatctgcagcgccagtgcgccat
tatctgcgacgcgttgcaagagcgcagcgatgtgcccctcgccatagcggatgtcagccttgcctacgaacgccacctattctcaccgcgc
gtacccccaaacgccaagaaaacggcacatgcgagcccaacccgcgcctcaacttctaccccgtatttgccgtgccagaggtgcttgcc
acctatcacatctttttccaaaactgcaagatacccctatcctgccgtgccaaccgcagccgagcggacaagcagctggccttgcggcagg
gcgctgtcatacctgatatcgcctcgctcaacgaagtgccaaaaatctttgagggtcttggacgcgacgagaagcgcgcggcaaacgctct
gcaacaggaaaacagcgaaaatgaaagtcactctggagtgttggtggaactcgagggtgacaacgcgcgcctagccgtactaaaacgca
gcatcgaggtcacccactttgcctacccggcacttaacctacccccccaaggtcatgagcacagtcatgagtgagctgatcgtgcgccgtgc
gcagcccctggagagggatgcaaatttgcaagaacaaacagaggagggcctacccgcagttggcgacgagcagctagcgcgctggctt
caaacgcgcgagcctgccgacttggaggagcgacgcaaactaatgatggccgcagtgctcgttaccgtggagcttgagtgcatgcagcg
gttctttgctgacccggagatgcagcgcaagctagaggaaacattgcactacacctttcgacagggctacg

Table 7 (continued) Nucleotide sequence of pAd-GW-TO/tRNA (SEQ ID NO: 84).

tacgccaggcctgcaagatctccaacgtggagctctgcaacctggtctcctaccttggaattttgcacgaaaaccgccttgggcaaaacgtg
cttcattccacgctcaagggcgaggcgcgcccgcgactacgtccgcgactgcgtttacttatttctatgctacacctggcagacggccatggg
cgtttggcagcagtgcttggaggagtgcaacctcaaggagctgcagaaactgctaaagcaaaacttgaaggacctatggacggccttcaa
cgagcgctccgtggccgcgcacctggcggacatcattttccccgaacgcctgcttaaaaccctgcaacagggtctgccagacttcaccagt
caaagcatgttgcagaactttaggaactttatcctagagcgctcaggaatcttgcccgccacctgctgtgcacttcctagcgactttgtgccca
ttaagtaccgcgaatgccctccgccgctttggggccactgctaccttctgcagctagccaactaccttgcctaccactctgacataatggaag
acgtgagcggtgacggtctactggagtgtcactgtcgctgcaacctatgcaccccgcaccgctccctggtttgcaattcgcagctgcttaac
gaaagtcaaattatcggtacctttgagctgcagggtccctcgcctgacgaaaagtccgcggctccggggttgaaactcactccggggctgt
ggacgtcggcttaccttcgcaaatttgtacctgaggactaccacgcccacgagattaggttctacgaagaccaatcccgcccgccaaatgc
ggagcttaccgcctgcgtcattacccagggccacattcttggccaattgcaagccatcaacaaagcccgccaagagtttctgctacgaaag
ggacgggggggtttacttggacccccagtccggcgaggagctcaacccaatcccccgccgccgcagccctatcagcagcagccgcgg
gcccttgcttcccaggatggcacccaaaaagaagctgcagctgccgccgccacccacggacgaggaggaatactgggacagtcaggc
agaggaggttttggacgaggaggaggaggacatgatggaagactgggagagcctagacgaggaagcttccgaggtcgaagaggtgtc
agacgaaacaccgtcaccctcggtcgcattcccctcgccggcgccccagaaatcggcaaccggttccagcatggctacaacctccgctc
ctcaggcgccgccggcactgcccgttcgccgacccaaccgtagatgggacaccactggaaccagggccggtaagtccaagcagccgc
cgccgttagcccaagagcaacaacagcgccaaggctaccgctcatggcgcgggcacaagaacgccatagttgcttgcttgcaagactgt
gggggcaacatctccttcgcccgccgctttcttctctaccatcacggcgtggccttcccccgtaacatcctgcattactaccgtcatctctaca
gcccatactgcaccggcggcagcggcagcggcagcaacagcagcggccacacagaagcaaaggcgaccggatagcaagactctga
caaagcccaagaaatccacagcggcggcagcagcaggaggaggagcgctgcgtctggcgcccaacgaacccgtatcgacccgcgag
cttagaaacaggatttttcccactctgtatgctatatttcaacagagcaggggccaagaacaagagctgaaaataaaaaacaggtctctgcg
atccctcacccgcagctgcctgtatcacaaaagcgaagatcagcttcggcgcacgctggaagacgcggaggctctcttcagtaaatactgc
gcgctgactcttaaggactagtttcgcgccctttctcaaatttaagcgcgaaaactacgtcatctccagcggccacacccggcgccagcacc
tgtcgtcagcgccattatgagcaaggaaattcccacgccctacatgtggagttaccagccacaaatgggacttgcggctggagctgcccaa
gactactcaacccgaataaactacatgagcgcgggaccccacatgatatcccgggtcaacggaatccgcgcccaccgaaaccgaattctc
ttggaacaggcggctattaccaccacacctcgtaataaccttaatccccgtagttggcccgctgccctggtgtaccaggaaagtcccgctcc
caccactgtggtacttcccagagacgcccaggccgaagttcagatgactaactcaggggcgcagcttgcgggcggctttcgtcacagggt
gcggtcgcccgggcagggtataactcacctgacaatcagagggcgaggtattcagctcaacgacgagtcggtgagctcctcgcttggtct
ccgtccggacgggacatttcagatcggcggcgccggccgtccttcattcacgcctcgtcaggcaatcctaactctgcagacctcgtcctctg
agccgcgctctggaggcattggaactctgcaatttattgaggagtttgtgccatcggtctactttaaccccttctcgggacctcccggccacta
tccggatcaatttattcctaactttgacgcggtaaaggactcggcggacggctacgactgaatgttaagtggagaggcagagcaactgcgc
ctgaaacacctggtccactgtcgccgccacaagtgctttgcccgcgactccggtgagttttgctactttgaattgcccgaggatcatatcgag
ggcccggcgcacggcgtccggcttaccgcccagggagagcttgcccgtagcctgattcgggagtttacccagcgcccccctgctagttga
gcgggacaggggaccctgtgttctcactgtgatttgcaactgtcctaaccttggattacatcaagatctttgttgccatctctgtgctgagtataa
taaatacagaaattaaaatatactggggctcctatcgccatcctgtaaacgccaccgtcttcacccgcccaagcaaaccaaggcgaacctta
cctggtacttttaacatctctccctctgtgatttacaacagtttcaacccagacggagtgagtctacgagagaacctctccgagctcagctactc
catcagaaaaaacaccaccctccttacctgccgggaacgtacgagtgcgtcaccggccgctgcaccacacctaccgcctgaccgtaaac
cagactttttccggacagacctcaataactctgtttaccagaacaggaggtgagcttagaaaacccttagggtattaggccaaaggcgcagc
tactgtggggtttatgaacaattcaagcaactctacgggctattctaattcaggtttctctagaaatggacggaattattacagagcagcgcctg
ctagaaagacgcagggcagcggccgagcaacagcgcatgaatcaagagctccaagacatggttaacttgcaccagtgcaaaaggggta
tcttttgtctggtaaagcaggccaaagtcacctacgacagtaataccaccggacaccgccttagctacaagttgccaaccaagcgtcagaa
attggtggtcatggtgggagaaaagcccattaccataactcagcactcggtagaaaccgaaggctgcattcactcaccttgtcaaggacctg
aggatctctgcacccttattaagaccctgtgcggtctcaaagatcttattccctttaactaataaaaaaaaataataaagcatcacttacttaaaat
cagttagcaaatttctgtccagtttattcagcagcacctccttgccctcctcccagctctggtattgca

Table 7 (continued) Nucleotide sequence of pAd-GW-TO/tRNA (SEQ ID NO: 84).

gcttcctcctggctgcaaactttctccacaatctaaatggaatgtcagtttcctcctgttcctgtccatccgcacccactatcttcatgttgttgca
gatgaagcgcgcaagaccgtctgaagataccttcaaccccgtgtatccatatgacacggaaaccggtcctccaactgtgccttttcttactcc
tccctttgtatcccccaatgggtttcaagagagtccccctggggtactctctttgcgcctatccgaacctctagttacctccaatggcatgcttg
cgctcaaaatgggcaacggcctctctctggacgaggccggcaaccttacctcccaaaatgtaaccactgtgagcccacctctcaaaaaaa
ccaagtcaaacataaacctggaaatatctgcacccctcacagttacctcagaagccctaactgtggctgccgccgcacctctaatggtcgcg
ggcaacacactcaccatgcaatcacaggccccgctaaccgtgcacgactccaaacttagcattgccacccaaggacccctcacagtgtca
gaaggaaagctagccctgcaaacatcaggcccccctcaccaccaccgatagcagtacccttactatcactgcctcacccccctctaactactg
ccactggtagcttgggcattgacttgaaagagcccatttatacacaaaatggaaaactaggactaaagtacggggctcctttgcatgtaaca
gacgacctaaacactttgaccgtagcaactggtccaggtgtgactattaataatacttccttgcaaactaaagttactggagccttgggttttga
ttcacaaggcaatatgcaacttaatgtagcaggaggactaaggattgattctcaaaacagacgccttatacttgatgttagttatccgtttgatg
ctcaaaaccaactaaatctaagactaggacagggccctctttttataaactcagcccacaacttggatattaactacaacaaaggcctttactt
gtttacagcttcaaacaattccaaaaagcttgaggttaacctaagcactgccaaggggttgatgtttgacgctacagccatagccattaatgca
ggagatgggcttgaatttggttcacctaatgcaccaaacacaaatcccctcaaaacaaaaattggccatggcctagaatttgattcaaacaag
gctatggttcctaaactaggaactggccttagttttgacagcacaggtgccattacagtaggaaacaaaaataatgataagctaactttgtgga
ccacaccagctccatctcctaactgtagactaaatgcagagaaagatgctaaactcactttggtcttaacaaaatgtggcagtcaaatacttgc
tacagtttcagttttggctgttaaaggcagtttggctccaatatctggaacagttcaaagtgctcatcttattataagatttgacgaaaatggagt
gctactaaacaattccttcctggacccagaatattggaactttagaaatggagatcttactgaaggcacagcctatacaaacgctgttggattt
atgcctaacctatcagcttatccaaaatctcacggtaaaactgccaaaagtaacattgtcagtcaagtttacttaaacggagacaaaactaaac
ctgtaacactaaccattacactaaacggtacacaggaaacaggagacacaactccaagtgcatactctatgtcattttcatgggactggtctg
gccacaactacattaatgaaatatttgccacatcctcttacactttttcatacattgcccaagaataaagaatcgtttgtgttatgtttcaacgtgttt
atttttcaattgcagaaaatttcgaatcatttttcattcagtagtatagccccaccaccacatagcttatacagatcaccgtaccttaatcaaactc
acagaaccctagtattcaacctgccacctccctcccaacacacagagtacacagtcctttctccccggctggccttaaaaagcatcatatcat
gggtaacagacatattcttaggtgttatattccacacggtttcctgtcgagccaaacgctcatcagtgatattaataaactccccgggcagctc
acttaagttcatgtcgctgtccagctgctgagccacaggctgctgtccaacttgcggttgcttaacgggcggcgaaggagaagtccacgcc
tacatgggggtagagtcataatcgtgcatcaggatagggcggtggtgctgcagcagcgcgcgaataaactgctgccgccgccgctccgt
cctgcaggaatacaacatggcagtggtctcctcagcgatgattcgcaccgcccgcagcataaggcgccttgtcctccgggcacagcagc
gcaccctgatctcacttaaatcagcacagtaactgcagcacagcaccacaatattgttcaaaatcccacagtgcaaggcgctgtatccaaag
ctcatggcggggaccacagaacccacgtggccatcataccacaagcgcaggtagattaagtggcgacccctcataaacacgctggacat
aaacattacctcttttggcatgttgtaattcaccacctcccggtaccatataaacctctgattaaacatggcgccatccaccaccatcctaaacc
agctggccaaaacctgcccgccggctatacactgcagggaaccgggactggaacaatgacagtggagagcccaggactcgtaaccatg
gatcatcatgctcgtcatgatatcaatgttggcacaacacaggcacacgtgcatacacttcctcaggattacaagctcctcccgcgttagaac
catatcccagggaacaacccattcctgaatcagcgtaaatcccacactgcagggaagacctcgcacgtaactcacgttgtgcattgtcaaa
gtgttacattcgggcagcagcggatgatcctccagtatggtagcgcgggtttctgtctcaaaaggaggtagacgatccctactgtacggagt
gcgccgagacaaccgagatcgtgttggtcgtagtgtcatgccaaatggaacgccggacgtagtcatatttcctgaagcaaaaccaggtgc
gggcgtgacaaacagatctgcgtctccggtctcgccgcttagatcgctctgtgtagtagttgtagtatatccactctctcaaagcatccaggc
gcccccctggcttcgggttctatgtaaactccttcatgcgccgctgccctgataacatccaccaccgcagaataagccacacccagccaacct
acacattcgttctgcgagtcacacacgggaggagcgggaagagctggaagaaccatgtttttttttttattccaaaagattatccaaaacctca
aaatgaagatctattaagtgaacgcgctcccctccggtggcgtggtcaaactctacagccaaagaacagataatggcatttgtaagatgttg
cacaatggcttccaaaaggcaaacggccctcacgtccaagtggacgtaaaggctaaacccttcagggtgaatctcctctataaacattcca
gcaccttcaaccatgcccaaataattctcatctcgccaccttctcaatatatctctaagcaaatcccgaatattaagtccggccattgtaaaaatc
tgctccagagcgccctccaccttcagcctcaagcagcgaatcatgattgcaaaaattcaggttcctcacagacctgtataagattcaaaagc
ggaacattaacaaaaataccgcgatcccgtaggtcccttcgcagggccagctgaacataatcgtgcaggtctgcacggaccagcgcggc
cacttccccgccaggaaccttgacaaaagaacccacactgattatgacacgcatactcggagctatgctaaccag

Table 7 (continued) Nucleotide sequence of pAd-GW-TO/tRNA (SEQ ID NO: 84).

cgtagccccgatgtaagctttgttgcatgggcggcgatataaaatgcaaggtgctgctcaaaaaatcaggcaaagcctcgcgcaaaaaag
aaagcacatcgtagtcatgctcatgcagataaaggcaggtaagctccggaaccaccacagaaaaagacaccatttttctctcaaacatgtct
gcgggtttctgcataaacacaaaataaaataacaaaaaaacatttaaacattagaagcctgtcttacaacaggaaaaacaacccttataagca
taagacggactacggccatgccggcgtgaccgtaaaaaaactggtcaccgtgattaaaaagcaccaccgacagctcctcggtcatgtccg
gagtcataatgtaagactcggtaaacacatcaggttgattcacatcggtcagtgctaaaaagcgaccgaaatagcccgggggaatacatac
ccgcaggcgtagagacaacattacagcccccataggaggtataacaaaattaataggagagaaaaacacataaacacctgaaaaaccct
cctgcctaggcaaaatagcaccctcccgctccagaacaacatacagcgcttccacagcggcagccataacagtcagccttaccagtaaaa
aagaaaacctattaaaaaaacaccactcgacacggcaccagctcaatcagtcacagtgtaaaaaagggccaagtgcagagcgagtatata
taggactaaaaaatgacgtaacggttaaagtccacaaaaaacacccagaaaaccgcacgcgaacctacgcccagaaacgaaagccaaa
aaacccacaacttcctcaaatcgtcacttccgttttcccacgttacgtcacttcccattttaagaaaactacaattcccaacacatacaagttact
ccgccctaaaacctacgtcacccgccccgttcccacgccccgcgccacgtcacaaactccaccccctcattatcatattggcttcaatccaa
aataaggtatattattgatgatgttaattaatttaaatccgcatgcgatatcgagctctcccgggaattcggatctgcgacgcgaggctggatg
gccttccccattatgattcttctcgcttccggcggcatcgggatgcccgcgttgcaggccatgctgtccaggcaggtagatgacgaccatca
gggacagcttcacggccagcaaaaggccaggaaccgtaaaaaggccgcgttgctggcgtttttccataggctccgcccccctgacgagc
atcacaaaaatcgacgctcaagtcagaggtggcgaaacccgacaggactataaagataccaggcgtttccccctggaagctccctcgtgc
gctctcctgttccgaccctgccgcttaccggatacctgtccgcctttctcccttcgggaagcgtggcgctttctcaatgctcacgctgtaggtat
ctcagttcggtgtaggtcgttcgctccaagctgggctgtgtgcacgaaccccccgttcagcccgaccgctgcgccttatccggtaactatcg
tcttgagtccaacccggtaagacacgacttatcgccactggcagcagccactggtaacaggattagcagagcgaggtatgtaggcggtgc
tacagagttcttgaagtggtggcctaactacggctacactagaaggacagtatttggtatctgcgctctgctgaagccagttaccttcggaaa
aagagttggtagctcttgatccggcaaacaaaccaccgctggtagcggtggtttttttgtttgcaagcagcagattacgcgcagaaaaaaag
gatctcaagaagatcctttgatcttttctacggggtctgacgctcagtggaacgaaaactcacgttaagggattttggtcatgagattatcaaaa
aggatcttcacctagatccttttaaatcaatctaaagtatatatgagtaaacttggtctgacagttaccaatgcttaatcagtgaggcacctatctc
agcgatctgtctatttcgttcatccatagttgcctgactccccgtcgtgtagataactacgatacgggagggcttaccatctggccccagtgct
gcaatgataccgcgagacccacgctcaccggctccagatttatcagcaataaaccagccagccggaagggccgagcgcagaagtggtc
ctgcaactttatccgcctccatccagtctattaattgttgccgggaagctagagtaagtagttcgccagttaatagtttgcgcaacgttgttgcca
ttgntgcaggcatcgtggtgtcacgctcgtcgtttggtatggcttcattcagctccggttcccaacgatcaaggcgagttacatgatcccccat
gttgtgcaaaaaagcggttagctccttcggtcctccgatcgttgtcagaagtaagttggccgcagtgttatcactcatggttatggcagcactg
cataattctcttactgtcatgccatccgtaagatgcttttctgtgactggtgagtactcaaccaagtcattctgagaatagtgtatgcggcgaccg
agttgctcttgcccggcgtcaacacgggataataccgcgccacatagcagaactttaaaagtgctcatcattggaaaacgttcttcggggcg
aaaactctcaaggatcttaccgctgttgagatccagttcgatgtaacccactcgtgcacccaactgatcttcagcatcttttactttcaccagcgt
ttctgggtgagcaaaaacaggaaggcaaaatgccgcaaaaaagggaataagggcgacacggaaatgttgaatactcatactcttcctttttc
aatattattgaagcatttatcagggttattgtctcatgagcggatacatatttgaatgtatttagaaaaataaacaaataggggttccgcgcacatt
tccccgaaaagtgccacctgacgtctaagaaaccattattatcatgacattaacctataaaaataggcgtatcacgaggccctttcgtcttcaa
ggatccgaattcccgggagagctcgatatcgcatgcggatttaaattaattaa

Please amend Table 8 on pages 363-374 as follows:

Table 8: Nucleotide sequence of pAdenoTAG tRNA (SEQ ID NO: 85).

1 catcatcaat aatatacctt attttggatt gaagccaata tgataatgag ggggtggagt
61 ttgtgacgtg gcgcggggcg tgggaacggg gcgggtgacg tagtagtgtg gcggaagtgt
121 gatgttgcaa gtgtggcgga acacatgtaa gcgacggatg tggcaaaagt gacgtttttg
181 gtgtgcgccg gtgtacacag gaagtgacaa ttttcgcgcg gttttaggcg gatgttgtag
241 taaatttggg cgtaaccgag taagatttgg ccattttcgc gggaaaactg aataagagga
301 agtgaaatct gaataatttt gtgttactca tagcgcgtaa tatttgtcta gggccgcggg
361 gactttgacc gtttacgtgg agactcgccc aggtgttttt ctcaggtgtt ttccgcgttc
421 cgggtcaaag ttggcgtttt attattatag tcagtcgaag cttggatccg gtacctctag
481 aattctcgag cggccgctag cgacatcgat cacaagtttg tacaaaaaag caggctttaa
541 aggaaccaat tcagtcgact ctagaggatc gaaaccatcc tctgctatat ggccgcatat
601 attttacttg aagactagga ccctacagaa aaggggtttt aaagtaggcg tgctaaacgt
661 cagcggacct gacccgtgta agaatccaca aggtatcctg gtggaaatgc gcatttgtag
721 gcttcaatat ctgtaatcct actaattagg tgtggagagc tttcagccag tttcgtaggt
781 ttggagacca tttaggggtt ggcgtgtggc cccctcgtaa agtctttcgt acttcctaca
841 tcagacaagt cttgcaattt gcaatatctc ttttagccaa tatctaaatc tttaaaattt
901 tgattttgtt ttttacccag gatgagagac attccagagt tgttaccttg tcaaaataaa
961 caaatttaaa gatgtctgtg aaaagaaaca tatattcctc atgggaatat atccaggttg
1021 ttgaaggagg tacgacctcg agatctctat cactgatagg gagactcgag tgtagtcgtg
1081 gccgagtggt taaggcgatg gactctaaat ccattggggt ctccccgcgc aggttcgaat
1141 cctgccgact acggcgtgct ttttttactc tcgggtagag gaaatccggt gcactacctg
1201 tgcaatcaca cagaataaca tggagtagta ctttttattt tcctgttatt atctttctcc
1261 ataaaagtgg aaccagataa ttttagttct tttgtgtaac aagactagag attttttgaa
1321 gtgttacatt ggaaagcact tgaaaacaca agtaatttct gacactgcta taaaaatgat
1381 ggaaaaacgc tcaagttgtt ttgcctttca gtcttcttga aatgctgtct ccctatctga
1441 aatccagctc acgtctgact tccaaaaccg tgcttgcctt taacttatgg aataaatatc
1501 tcaaacagat ccccgggcga gctcgaattc gcggccgcac tcgagatatc tagacccagc
1561 tttcttgtac aaagtggtga tcgattcgac agatcactga aatgtgtggg cgtggcttaa
1621 gggtgggaaa gaatatataa ggtgggggtc ttatgtagtt ttgtatctgt tttgcagcag
1681 ccgccgccgc catgagcacc aactcgtttg atggaagcat tgtgagctca tatttgacaa
1741 cgcgcatgcc cccatgggcc ggggtgcgtc agaatgtgat gggctccagc attgatggtc
1801 gccccgtcct gcccgcaaac tctactacct tgacctacga gaccgtgtct ggaacgccgt
1861 tggagactgc agcctccgcc gccgcttcag ccgctgcagc caccgcccgc gggattgtga
1921 ctgactttgc tttcctgagc ccgcttgcaa gcagtgcagc ttcccgttca tccgcccgcg
1981 atgacaagtt gacggctctt ttggcacaat tggattcttt gacccgggaa cttaatgtcg
2041 tttctcagca gctgttggat ctgcgccagc aggtttctgc cctgaaggct tcctcccctc
2101 ccaatgcggt ttaaaacata aataaaaaac cagactctgt ttggatttgg atcaagcaag
2161 tgtcttgctg tctttattta ggggttttgc gcgcgcggta ggcccgggac cagcggtctc
2221 ggtcgttgag ggtcctgtgt atttttcca ggacgtggta aaggtgactc tggatgttca
2281 gatacatggg cataagcccg tctctggggt ggaggtagca ccactgcaga gcttcatgct
2341 gcggggtggt gttgtagatg atccagtcgt agcaggagcg ctgggcgtgg tgcctaaaaa
2401 tgtctttcag tagcaagctg attgccaggg gcaggccctt ggtgtaagtg tttacaaagc
2461 ggttaagctg ggatgggtgc atacgtgggg atatgagatg catcttggac tgtattttta
2521 ggttggctat gttcccagcc atatccctcc ggggattcat gttgtgcaga accaccagca

Table 8 (continued) Nucleotide sequence of pAdenoTAG tRNA (SEQ ID NO: 85).

2581 cagtgtatcc ggtgcacttg ggaaatttgt catgtagctt agaaggaaat gcgtggaaga
2641 acttggagac gcccttgtga cctccaagat tttccatgca ttcgtccata atgatggcaa
2701 tgggcccacg ggcggcggcc tgggcgaaga tatttctggg atcactaacg tcatagttgt
2761 gttccaggat gagatcgtca taggccattt ttacaaagcg cgggcggagg gtgccagact
2821 gcggtataat ggttccatcc ggcccagggg cgtagttacc ctcacagatt tgcatttccc
2881 acgctttgag ttcagatggg gggatcatgt ctacctgcgg ggcgatgaag aaaacggttt
2941 ccggggtagg ggagatcagc tgggaagaaa gcaggttcct gagcagctgc gacttaccgc
3001 agccggtggg cccgtaaatc acacctatta ccgggtgcaa ctggtagtta agagagctgc
3061 agctgccgtc atccctgagc aggggggcca cttcgttaag catgtccctg actcgcatgt
3121 tttccctgac caaatccgcc agaaggcgct cgccgcccag cgatagcagt tcttgcaagg
3181 aagcaaagtt tttcaacggt ttgagaccgt ccgccgtagg catgcttttg agcgtttgac
3241 caagcagttc caggcggtcc cacagctcgg tcacctgctc tacggcatct cgatccagca
3301 tatctcctcg tttcgcgggt tggggcggct ttcgctgtac ggcagtagtc ggtgctcgtc
3361 cagacgggcc agggtcatgt ctttccacgg gcgcagggtc ctcgtcagcg tagtctgggt
3421 cacggtgaag ggtgcgctc cgggctgcgc gctggccagg gtgcgcttga ggctggtcct
3481 gctggtgctg aagcgctgcc ggtcttcgcc ctgcgcgtcg gccaggtagc atttgaccat
3541 ggtgtcatag tccagcccct ccgcggcgtg gcccttggcg cgcagcttgc ccttggagga
3601 ggcgccgcac gaggggcagt gcagactttt gagggcgtag agcttgggcg cgagaaatac
3661 cgattccggg gagtaggcat ccgcgccgca ggccccgcag acggtctcgc attccacgag
3721 ccaggtgagc tctggccgtt cggggtcaaa aaccaggttt cccccatgct ttttgatgcg
3781 tttcttacct ctggtttcca tgagccggtg tccacgctcg gtgacgaaaa ggctgtccgt
3841 gtccccgtat acagacttga gaggcctgtc ctcgagcggt gttccgcggt cctcctcgta
3901 tagaaactcg gaccactctg agacaaaggc tcgcgtccag gccagcacga aggaggctaa
3961 gtgggagggg tagcggtcgt tgtccactag ggggtccact cgctccaggg tgtgaagaca
4021 catgtcgccc tcttcggcat caaggaaggt gattggtttg taggtgtagg ccacgtgacc
4081 gggtgttcct gaaggggggc tataaaaggg ggtgggggcg cgttcgtcct cactctcttc
4141 cgcatcgctg tctgcgaggg ccagctgttg gggtgagtac tccctctgaa aagcgggcat
4201 gacttctgcg ctaagattgt cagtttccaa aaacgaggag gatttgatat tcacctggcc
4261 cgcggtgatg cctttgaggg tggccgcatc catctggtca gaaaagacaa tctttttgtt
4321 gtcaagcttg gtggcaaacg acccgtagag ggcgttggac agcaacttgg cgatggagcg
4381 cagggtttgg tttttgtcgc gatcggcgcg ctccttggcc gcgatgttta gctgcacgta
4441 ttcgcgcgca acgcaccgcc attcgggaaa gacggtggtg cgctcgtcgg gcaccaggtg
4501 cacgcgccaa ccgcggttgt gcagggtgac aaggtcaacg ctggtggcta cctctccgcg
4561 taggcgctcg ttggtccagc agaggcggcc gcccttgcgc gagcagaatg gcggtagggg
4621 gtctagctgc gtctcgtccg gggggtctgc gtccacggta aagaccccgg gcagcaggcg
4681 cgcgtcgaag tagtctatct tgcatccttg caagtctagc gcctgctgcc atgcgcgggc
4741 ggcaagcgcg cgctcgtatg ggttgagtgg gggaccccat ggcatggggt gggtgagcgc
4801 ggaggcgtac atgccgcaaa tgtcgtaaac gtagaggggc tctctgagta ttccaagata
4861 tgtagggtag catcttccac cgcggatgct ggcgcgcacg taatcgtata gttcgtgcga
4921 gggagcgagg aggtcgggac cgaggttgct acgggcgggc tgctctgctc ggaagactat
4981 ctgcctgaag atggcatgtg agttggatga tatggttgga cgctggaaga cgttgaagct
5041 ggcgtctgtg agacctaccg cgtcacgcac gaaggaggcg taggagtcgc gcagcttgtt
5101 gaccagctcg gcggtgacct gcacgtctag ggcgcagtag tccagggttt ccttgatgat
5161 gtcatactta tcctgtccct tttttttcca cagctcgcgg ttgaggacaa actcttcgcg
5221 gtctttccag tactcttgga tcggaaaccc gtcggcctcc gaacggtaag agcctagcat

Table 8 (continued) Nucleotide sequence of pAdenoTAG tRNA (SEQ ID NO: 85).

5281 gtagaactgg ttgacggcct ggtaggcgca gcatcccttt tctacgggta gcgcgtatgc
5341 ctgcgcggcc ttccggagcg aggtgtgggt gagcgcaaag gtgtccctga ccatgacttt
5401 gaggtactgg tatttgaagt cagtgtcgtc gcatccgccc tgctcccaga gcaaaaagtc
5461 cgtgcgcttt ttggaacgcg gatttggcag ggcgaaggtg acatcgttga agagtatctt
5521 tcccgcgcga ggcataaagt tgcgtgtgat gcggaagggt cccggcacct cggaacggtt
5581 gttaattacc tgggcggcga gcacgatctc gtcaaagccg ttgatgttgt ggcccacaat
5641 gtaaagttcc aagaagcgcg ggatgccctt gatggaaggc aattttttaa gttcctcgta
5701 ggtgagctct tcaggggagc tgagcccgtg ctctgaaagg gcccagtctg caagatgagg
5761 gttggaagcg acgaatgagc tccacaggtc acgggccatt agcatttgca ggtggtcgcg
5821 aaaggtccta aactggcgac ctatggccat tttttctggg gtgatgcagt agaaggtaag
5881 cgggtcttgt tcccagcggt cccatccaag gttcgcggct aggtctcgcg cggcagtcac
5941 tagaggctca tctccgccga acttcatgac cagcatgaag ggcacgagct gcttcccaaa
6001 ggcccccatc caagtatagg tctctacatc gtaggtgaca aagagacgct cggtgcgagg
6061 atgcgagccg atcgggaaga actggatctc ccgccaccaa ttggaggagt ggctattgat
6121 gtggtgaaag tagaagtccc tgcgacgggc cgaacactcg tgctggcttt tgtaaaaacg
6181 tgcgcagtac tggcagcggt gcacgggctg tacatcctgc acgaggttga cctgacgacc
6241 gcgcacaagg aagcagagtg ggaatttgag cccctcgcct ggcgggtttg gctggtggtc
6301 ttctacttcg gctgcttgtc cttgaccgtc tggctgctcg aggggagtta cggtggatcg
6361 gaccaccacg ccgcgcgagc ccaaagtcca gatgtccgcg cgcggcggtc ggagcttgat
6421 gacaacatcg cgcagatggg agctgtccat ggtctggagc tcccgcggcg tcaggtcagg
6481 cgggagctcc tgcaggttta cctcgcatag acgggtcagg gcgcgggcta gatccaggtg
6541 atacctaatt tccaggggct ggttggtggc ggcgtcgatg gcttgcaaga ggccgcatcc
6601 ccgcggcgcg actacggtac cgcgcggcgg gcggtgggcc gcgggggtgt ccttggatga
6661 tgcatctaaa agcggtgacg cgggcgagcc cccggaggta gggggggctc cggacccgcc
6721 gggagagggg gcaggggcac gtcggcgccg cgcgcgggca ggagctggtg ctgcgcgcgt
6781 aggttgctgg cgaacgcgac gacgcggcgg ttgatctcct gaatctggcg cctctgcgtg
6841 aagacgacgg gcccggtgag cttgagcctg aaagagagtt cgacagaatc aatttcggtg
6901 tcgttgacgg cggcctggcg caaaatctcc tgcacgtctc ctgagttgtc ttgataggcg
6961 atctcggcca tgaactgctc gatctcttcc tcctggagat ctccgcgtcc ggctcgctcc
7021 acggtggcgg cgaggtcgtt ggaaatgcgg gccatgagct gcgagaaggc gttgaggcct
7081 ccctcgttcc agacgcggct gtagaccacg cccccttcgg catcgcgggc gcgcatgacc
7141 acctgcgcga gattgagctc cacgtgccgg gcgaagacgg cgtagtttcg caggcgctga
7201 aagaggtagt tgagggtggt ggcggtgtgt tctgccacga agaagtacat aacccagcgt
7261 cgcaacgtgg attcgttgat atcccccaag gcctcaaggc gctccatggc ctcgtagaag
7321 tccacggcga agttgaaaaa ctgggagttg cgcgccgaca cggttaactc ctcctccaga
7381 agacggatga gctcggcgac agtgtcgcgc acctcgcgct caaaggctac aggggcctct
7441 tcttcttctt caatctcctc ttccataagg gcctcccctt cttcttcttc tggcggcggt
7501 gggggagggg ggacacggcg gcgacgacgg cgcaccggga ggcggtcgac aaagcgctcg
7561 atcatctccc cgcggcgacg gcgcatggtc tcggtgacgg cgcggccgtt ctcgcggggg
7621 cgcagttgga agacgccgcc cgtcatgtcc cggttatggg ttggcggggg gctgccatgc
7681 ggcagggata cggcgctaac gatgcatctc aacaattgtt gtgtaggtac tccgccgccg
7741 agggacctga gcgagtccgc atcgaccgga tcggaaaacc tctcgagaaa ggcgtctaac
7801 cagtcacagt cgcaaggtag gctgagcacc gtggcgggcg gcagcgggcg gcggtcgggg
7861 ttgtttctgg cggaggtgct gctgatgatg taattaaagt aggcggtctt gagacggcgg
7921 atggtcgaca gaagcaccat gtccttgggt ccggcctgct gaatgcgcag gcggtcggcc

Table 8 (continued) Nucleotide sequence of pAdenoTAG tRNA (SEQ ID NO: 85).

7981 atgccccagg cttcgttttg acatcggcgc aggtctttgt agtagtcttg catgagcctt
8041 tctaccggca cttcttcttc tccttcctct tgtcctgcat ctcttgcatc tatcgctgcg
8101 gcggcggcgg agtttggccg taggtggcgc cctcttcctc ccatgcgtgt gaccccgaag
8161 cccctcatcg gctgaagcag ggctaggtcg gcgacaacgc gctcggctaa tatggcctgc
8221 tgcacctgcg tgagggtaga ctggaagtca tccatgtcca caaagcggtg gtatgcgccc
8281 gtgttgatgg tgtaagtgca gttggccata acggaccagt taacggtctg gtgacccggc
8341 tgcgagagct cggtgtacct gagacgcgag taagccctcg agtcaaatac gtagtcgttg
8401 caagtccgca ccaggtactg gtatcccacc aaaaagtgcg gcggcggctg gcggtagagg
8461 ggccagcgta gggtggccgg ggctccgggg gcgagatctt ccaacataag gcgatgatat
8521 ccgtagatgt acctggacat ccaggtgatg ccggcggcgg tggtggaggc gcgcggaaag
8581 tcgcggacgc ggttccagat gttgcgcagc ggcaaaaagt gctccatggt cgggacgctc
8641 tggccggtca ggcgcgcgca atcgttgacg ctctagaccg tgcaaaagga gagcctgtaa
8701 gcgggcactc ttccgtggtc tggtggataa attcgcaagg gtatcatggc ggacgaccgg
8761 ggttcgagcc ccgtatccgg ccgtccgccg tgatccatgc ggttaccgcc cgcgtgtcga
8821 acccaggtgt gcgacgtcag acaacggggg agtgctcctt ttggcttcct tccaggcgcg
8881 gcggctgctg cgctagcttt tttggccact ggccgcgcgc agcgtaagcg gttaggctgg
8941 aaagcgaaag cattaagtgg ctcgctccct gtagccggag ggttattttc caagggttga
9001 gtcgcgggac ccccggttcg agtctcggac cggccggact gcggcgaacg ggggtttgcc
9061 tccccgtcat gcaagacccc gcttgcaaat tcctccggaa acagggacga gccccttttt
9121 tgcttttccc agatgcatcc ggtgctgcgg cagatgcgcc cccctcctca gcagcggcaa
9181 gagcaagagc agcggcagac atgcagggca ccctcccctc ctcctaccgc gtcaggaggg
9241 gcgacatccg cggttgacgc ggcagcagat ggtgattacg aacccccgcg gcgccgggcc
9301 cggcactacc tggacttgga ggagggcgag ggcctggcgc ggctaggagc gccctctcct
9361 gagcggtacc caagggtgca gctgaagcgt gatacgcgtg aggcgtacgt gccgcggcag
9421 aacctgtttc gcgaccgcga gggagaggag cccgaggaga tgcgggatcg aaagttccac
9481 gcagggcgcg agctgcggca tggcctgaat cgcgagcggt tgctgcgcga ggaggacttt
9541 gagcccgacg cgcgaaccgg gattagtccc gcgcgcgcac acgtggcggc cgccgacctg
9601 gtaaccgcat acgagcagac ggtgaaccag gagattaact ttcaaaaaag ctttaacaac
9661 cacgtgcgta cgcttgtggc gcgcgaggag gtggctatag gactgatgca tctgtgggac
9721 tttgtaagcg cgctggagca aaacccaaat agcaagccgc tcatggcgca gctgttcctt
9781 atagtgcagc acagcaggga caacgaggca ttcagggatg cgctgctaaa catagtagag
9841 cccgagggcc gctggctgct cgatttgata aacatcctgc agagcatagt ggtgcaggag
9901 cgcagcttga gcctggctga caaggtggcc gccatcaact attccatgct tagcctgggc
9961 aagttttacg cccgcaagat ataccatacc ccttacgttc ccatagacaa ggaggtaaag
10021 atcgaggggt tctacatgcg catggcgctg aaggtgctta ccttgagcga cgacctgggc
10081 gtttatcgca acgagcgcat ccacaaggcc gtgagcgtga gccggcggcg cgagctcagc
10141 gaccgcgagc tgatgcacag cctgcaaagg gccctggctg gcacgggcag cggcgataga
10201 gaggccgagt cctactttga cgcgggcgct gacctgcgct gggccccaag ccgacgcgcc
10261 ctggaggcag ctggggccgg acctgggctg gcggtggcac ccgcgcgcgc tggcaacgtc
10321 ggcggcgtgg aggaatatga cgaggacgat gagtacgagc cagaggacgg cgagtactaa
10381 gcggtgatgt ttctgatcag atgatgcaag acgcaacgga cccggcggtg cgggcggcgc
10441 tgcagagcca gccgtccggc cttaactcca cggacgactg gcgccaggtc atggaccgca
10501 tcatgtcgct gactgcgcgc aatcctgacg cgttccggca gcagccgcag gccaaccggc
10561 tctccgcaat tctggaagcg gtggtcccgg cgcgcgcaaa ccccacgcac gagaaggtgc
10621 tggcgatcgt aaacgcgctg gccgaaaaca gggccatccg gcccgacgag gccggcctgg

Table 8 (continued) Nucleotide sequence of pAdenoTAG tRNA (SEQ ID NO: 85).

10681 tctacgacgc gctgcttcag cgcgtggctc gttacaacag cggcaacgtg cagaccaacc
10741 tggaccggct ggtgggggat gtgcgcgagg ccgtggcgca gcgtgagcgc gcgcagcagc
10801 agggcaacct gggctccatg gttgcactaa acgccttcct gagtacacag cccgccaacg
10861 tgccgcgggg acaggaggac tacaccaact ttgtgagcgc actgcggcta atggtgactg
10921 agacaccgca aagtgaggtg taccagtctg ggccagacta tttttccag accagtagac
10981 aaggcctgca gaccgtaaac ctgagccagg ctttcaaaaa cttgcagggg ctgtgggggg
11041 tgcgggctcc cacaggcgac cgcgcgaccg tgtctagctt gctgacgccc aactcgcgcc
11101 tgttgctgct gctaatagcg cccttcacgg acagtggcag cgtgtcccgg gacacatacc
11161 taggtcactt gctgacactg taccgcgagg ccataggtca ggcgcatgtg gacgagcata
11221 ctttccagga gattacaagt gtcagccgcg cgctggggca ggaggacacg ggcagcctgg
11281 aggcaaccct aaactacctg ctgaccaacc ggcggcagaa gatcccctcg ttgcacagtt
11341 taaacagcga ggaggagcgc attttgcgct acgtgcagca gagcgtgagc cttaacctga
11401 tgcgcgacgg ggtaacgccc agcgtggcgc tggacatgac cgcgcgcaac atggaaccgg
11461 gcatgtatgc ctcaaaccgg ccgtttatca accgcctaat ggactacttg catcgcgcgg
11521 ccgccgtgaa ccccgagtat ttcaccaatg ccatcttgaa cccgcactgg ctaccgcccc
11581 ctggtttcta caccggggga ttcgaggtgc ccgagggtaa cgatggattc ctctgggacg
11641 acatagacga cagcgtgttt tccccgcaac cgcagaccct gctagagttg caacagcgcg
11701 agcaggcaga ggcggcgctg cgaaaggaaa gcttccgcag gccaagcagc ttgtccgatc
11761 taggcgctgc ggccccgcgg tcagatgcta gtagcccatt tccaagcttg atagggtctc
11821 ttaccagcac tcgcaccacc cgcccgcgcc tgctgggcga ggaggagtac ctaaacaact
11881 cgctgctgca gccgcagcgc gaaaaaaacc tgcctccggc atttcccaac aacgggatag
11941 agagcctagt ggacaagatg agtagatgga agacgtacgc gcaggagcac agggacgtgc
12001 caggcccgcg cccgcccacc cgtcgtcaaa ggcacgaccg tcagcggggt ctggtgtggg
12061 aggacgatga ctcggcagac gacagcagcg tcctggattt gggagggagt ggcaaccgt
12121 ttgcgcacct tcgccccagg ctggggagaa tgttttaaaa aaaaaaaagc atgatgcaaa
12181 ataaaaaact caccaaggcc atggcaccga gcgttggttt tcttgtattc cccttagtat
12241 gcggcgcgcg gcgatgtatg aggaaggtcc tcctccctcc tacgagagtg tggtgagcgc
12301 ggcgccagtg gcggcggcgc tgggttctcc cttcgatgct cccctggacc cgccgtttgt
12361 gcctccgcgg tacctgcggc ctaccggggg gagaaacagc atccgttact ctgagttggc
12421 acccctattc gacaccaccc gtgtgtacct ggtggacaac aagtcaacgg atgtggcatc
12481 cctgaactac cagaacgacc acagcaactt tctgaccacg gtcattcaaa acaatgacta
12541 cagcccgggg gaggcaagca cacagaccat caatcttgac gaccggtcgc actggggcgg
12601 cgacctgaaa accatcctgc ataccaacat gccaaatgtg aacgagttca tgtttaccaa
12661 taagtttaag gcgcgggtga tggtgtcgcg cttgcctact aaggacaatc aggtggagct
12721 gaaatacgag tgggtggagt tcacgctgcc cgagggcaac tactccgaga ccatgaccat
12781 agaccttatg aacaacgcga tcgtggagca ctacttgaaa gtgggcagac agaacggggt
12841 tctggaaagc gacatcgggg taaagtttga cacccgcaac ttcagactgg ggtttgaccc
12901 cgtcactggt cttgtcatgc ctggggtata tacaaacgaa gccttccatc cagacatcat
12961 tttgctgcca ggatgcgggg tggacttcac ccacagccgc ctgagcaact tgttgggcat
13021 ccgcaagcgg caacccttcc aggagggctt taggatcacc tacgatgatc tggagggtgg
13081 taacattccc gcactgttgg atgtggacgc ctaccaggcg agcttgaaag atgacaccga
13141 acagggcggg ggtggcgcag gcggcagcaa cagcagtggc agcggcgcgg aagagaactc
13201 caacgcggca gccgcggcaa tgcagccggt ggaggacatg aacgatcatg ccattcgcgg
13261 cgacaccttt gccacacggg ctgaggagaa gcgcgctgag gccgaagcag cggccgaagc
13321 tgccgccccc gctgcgcaac ccgaggtcga gaagcctcag aagaaaccgg tgatcaaacc

Table 8 (continued) Nucleotide sequence of pAdenoTAG tRNA (SEQ ID NO: 85).

13381 cctgacagag gacagcaaga aacgcagtta caacctaata agcaatgaca gcaccttcac
13441 ccagtaccgc agctggtacc ttgcatacaa ctacggcgac cctcagaccg gaatccgctc
13501 atggaccctg ctttgcactc ctgacgtaac ctgcggctcg gagcaggtct actggtcgtt
13561 gccagacatg atgcaagacc ccgtgacctt ccgctccacg cgccagatca gcaactttcc
13621 ggtggtgggc gccgagctgt tgcccgtgca ctccaagagc ttctacaacg accaggccgt
13681 ctactcccaa ctcatccgcc agtttacctc tctgacccac gtgttcaatc gctttcccga
13741 gaaccagatt ttggcgcgcc cgccagcccc caccatcacc accgtcagtg aaaacgttcc
13801 tgctctcaca gatcacggga cgctaccgct gcgcaacagc atcggaggag tccagcgagt
13861 gaccattact gacgccagac gccgcacctg cccctacgtt tacaaggccc tgggcatagt
13921 ctcgccgcgc gtcctatcga gccgcacttt ttgagcaagc atgtccatcc ttatatcgcc
13981 cagcaataac acaggctggg gcctgcgctt cccaagcaag atgtttggcg gggccaagaa
14041 gcgctccgac caacacccag tgcgcgtgcg cgggcactac cgcgcgccct ggggcgcgca
14101 caaacgcggc cgcactgggc gcaccaccgt cgatgacgcc atcgacgcgg tggtggagga
14161 ggcgcgcaac tacacgccca cgccgccacc agtgtccaca gtggacgcgg ccattcagac
14221 cgtggtgcgc ggagcccggc gctatgctaa aatgaagaga cggcggaggc gcgtagcacg
14281 tcgccaccgc cgccgacccg gcactgccgc ccaacgcgcg gcggcggccc tgcttaaccg
14341 cgcacgtcgc accggccgac gggcggccat gcgggccgct cgaaggctgg ccgcgggtat
14401 tgtcactgtg ccccccaggt ccaggcgacg agcggccgcc gcagcagccg cggccattag
14461 tgctatgact cagggtcgca ggggcaacgt gtattgggtg cgcgactcgg ttagcggcct
14521 gcgcgtgccc gtgcgcaccc gcccccgcg caactagatt gcaagaaaaa actacttaga
14581 ctcgtactgt tgtatgtatc cagcggcggc ggcgcgcaac gaagctatgt ccaagcgcaa
14641 aatcaaagaa gagatgctcc aggtcatcgc gccggagatc tatggccccc cgaagaagga
14701 agagcaggat tacaagcccc gaaagctaaa gcgggtcaaa aagaaaaaga aagatgatga
14761 tgatgaactt gacgacgagg tggaactgct gcacgctacc gcgcccaggc gacgggtaca
14821 gtggaaaggt cgacgcgtaa aacgtgtttt gcgacccggc accaccgtag tctttacgcc
14881 cggtgagcgc tccacccgca cctacaagcg cgtgtatgat gaggtgtacg gcgacgagga
14941 cctgcttgag caggccaacg agcgcctcgg ggagtttgcc tacggaaagc ggcataagga
15001 catgctggcg ttgccgctgg acgagggcaa cccaacacct agcctaaagc ccgtaacact
15061 gcagcaggtg ctgcccgcgc ttgcaccgtc cgaagaaaag cgcggcctaa agcgcgagtc
15121 tggtgacttg gcacccaccg tgcagctgat ggtacccaag cgccagcgac tggaagatgt
15181 cttggaaaaa atgaccgtgg aacctgggct ggagcccgag gtccgcgtgc ggccaatcaa
15241 gcaggtggcg ccgggactgg gcgtgcagac cgtggacgtt cagataccca ctaccagtag
15301 caccagtatt gccaccgcca cagagggcat ggagacacaa acgtccccgg ttgcctcagc
15361 ggtggcggat gccgcggtgc aggcggtcgc tgcggccgcg tccaagacct ctacggaggt
15421 gcaaacggac ccgtggatgt ttcgcgtttc agcccccccgg cgcccgcgcg gttcgaggaa
15481 gtacggcgcc gccagcgcgc tactgcccga atatgcccta catccttcca ttgcgcctac
15541 ccccggctat cgtggctaca cctaccgccc cagaagacga gcaactaccc gacgccgaac
15601 caccactgga acccgccgcc gccgtcgccg tcgccagccc gtgctggccc cgatttccgt
15661 gcgcagggtg gctcgcgaag gaggcaggac cctggtgctg ccaacagcgc gctaccaccc
15721 cagcatcgtt taaaagccgg tctttgtggt tcttgcagat atggccctca cctgccgcct
15781 ccgtttcccg gtgccgggat tccgaggaag aatgcaccgt aggaggggca tggccggcca
15841 cggcctgacg ggcggcatgc gtcgtgcgca ccaccggcgg cggcgcgcgt cgcaccgtcg
15901 catgcgcggc ggtatcctgc ccctccttat tccactgatc gccgcggcga ttggcgccgt
15961 gcccggaatt gcatccgtgg ccttgcaggc gcagagacac tgattaaaaa caagttgcat
16021 gtggaaaaat caaaataaaa agtctggact ctcacgctcg cttggtcctg taactatttt

Table 8 (continued) Nucleotide sequence of pAdenoTAG tRNA (SEQ ID NO: 85).

16081 gtagaatgga agacatcaac tttgcgtctc tggccccgcg acacggctcg cgcccgttca
16141 tgggaaactg gcaagatatc ggcaccagca atatgagcgg tggcgccttc agctggggct
16201 cgctgtggag cggcattaaa aatttcggtt ccaccgttaa gaactatggc agcaaggcct
16261 ggaacagcag cacaggccag atgctgaggg ataagttgaa agagcaaaat ttccaacaaa
16321 aggtggtaga tggcctggcc tctggcatta gcggggtggt ggacctggcc aaccaggcag
16381 tgcaaaataa gattaacagt aagcttgatc cccgccctcc cgtagaggag cctccaccgg
16441 ccgtggagac agtgtctcca gaggggcgtg gcgaaaagcg tccgcgcccc gacagggaag
16501 aaactctggt gacgcaaata gacgagcctc cctcgtacga ggaggcacta aagcaaggcc
16561 tgcccaccac ccgtcccatc gcgcccatgg ctaccggagt gctgggccag cacacacccg
16621 taacgctgga cctgcctccc cccgccgaca cccagcagaa acctgtgctg ccaggcccga
16681 ccgccgttgt tgtaacccgt cctagccgcg cgtccctgcg ccgcgccgcc agcggtccgc
16741 gatcgttgcg gcccgtagcc agtggcaact ggcaaagcac actgaacagc atcgtgggtc
16801 tgggggtgca atccctgaag cgccgacgat gcttctgaat agctaacgtg tcgtatgtgt
16861 gtcatgtatg cgtccatgtc gccgccagag gagctgctga gccgccgcgc gcccgctttc
16921 caagatggct accccttcga tgatgccgca gtggtcttac atgcacatct cgggccagga
16981 cgcctcggag tacctgagcc ccgggctggt gcagtttgcc cgcgccaccg agacgtactt
17041 cagcctgaat aacaagttta gaaaccccac ggtggcgcct acgcacgacg tgaccacaga
17101 ccggtcccag cgtttgacgc tgcggttcat ccctgtggac cgtgaggata ctgcgtactc
17161 gtacaaggcg cggttcaccc tagctgtggg tgataaccgt gtgctggaca tggcttccac
17221 gtactttgac atccgcggcg tgctggacag gggccctact tttaagccct actctggcac
17281 tgcctacaac gccctggctc ccaagggtgc cccaaatcct tgcgaatggg atgaagctgc
17341 tactgctctt gaaataaacc tagaagaaga ggacgatgac aacgaagacg aagtagacga
17401 gcaagctgag cagcaaaaaa ctcacgtatt tgggcaggcg ccttattctg gtataaatat
17461 tacaaaggag ggtattcaaa taggtgtcga aggtcaaaca cctaaatatg ccgataaaac
17521 atttcaacct gaacctcaaa taggagaatc tcagtggtac gaaactgaaa ttaatcatgc
17581 agctgggaga gtccttaaaa agactacccc aatgaaacca tgttacggtt catatgcaaa
17641 acccacaaat gaaaatggag ggcaaggcat tcttgtaaag caacaaaatg gaaagctaga
17701 aagtcaagtg gaaatgcaat ttttctcaac tactgaggcg accgcaggca atggtgataa
17761 cttgactcct aaagtggtat tgtacagtga agatgtagat atagaaaccc cagacactca
17821 tatttcttac atgcccacta ttaaggaagg taactcacga gaactaatgg gccaacaatc
17881 tatgcccaac aggcctaatt acattgcttt tagggacaat tttattggtc taatgtatta
17941 caacagcacg ggtaatatgg gtgttctggc gggccaagca tcgcagttga atgctgttgt
18001 agatttgcaa gacagaaaca cagagctttc ataccagctt ttgcttgatt ccattggtga
18061 tagaaccagg tacttttcta tgtggaatca ggctgttgac agctatgatc cagatgttag
18121 aattattgaa aatcatggaa ctgaagatga acttccaaat tactgctttc cactgggagg
18181 tgtgattaat acagagactc ttaccaaggt aaaacctaaa acaggtcagg aaaatggatg
18241 ggaaaaagat gctacagaat tttcagataa aaatgaaata agagttggaa ataattttgc
18301 catggaaatc aatctaaatg ccaacctgtg gagaaatttc ctgtactcca acatagcgct
18361 gtatttgccc gacaagctaa agtacagtcc ttccaacgta aaaatttctg ataacccaaa
18421 cacctacgac tacatgaaca agcgagtggt ggctcccggg ttagtggact gctacattaa
18481 ccttggagca cgctggtccc ttgactatat ggacaacgtc aacccattta accaccaccg
18541 caatgctggc ctgcgctacc gctcaatgtt gctgggcaat ggtcgctatg tgcccttcca
18601 catccaggtg cctcagaagt tctttgccat taaaaacctc cttctcctgc cgggctcata
18661 cacctacgag tggaacttca ggaaggatgt taacatggtt ctgcagagct ccctaggaaa

Table 8 (continued) Nucleotide sequence of pAdenoTAG tRNA (SEQ ID NO: 85).

18721 tgacctaagg gttgacggag ccagcattaa gtttgatagc atttgccttt acgccacctt
18781 cttccccatg gcccacaaca ccgcctccac gcttgaggcc atgcttagaa acgacaccaa
18841 cgaccagtcc tttaacgact atctctccgc cgccaacatg ctctacccta tacccgccaa
18901 cgctaccaac gtgcccatat ccatcccctc ccgcaactgg gcggctttcc gcggctgggc
18961 cttcacgcgc cttaagacta aggaaacccc atcactgggc tcgggctacg acccttatta
19021 cacctactct ggctctatac cctacctaga tggaaccttt tacctcaacc acacctttaa
19081 gaaggtggcc attacctttg actcttctgt cagctggcct ggcaatgacc gcctgcttac
19141 ccccaacgag tttgaaatta agcgctcagt tgacggggag ggttacaacg ttgcccagtg
19201 taacatgacc aaagactggt tcctggtaca aatgctagct aactacaaca ttggctacca
19261 gggcttctat atcccagaga gctacaagga ccgcatgtac tccttcttta gaaacttcca
19321 gcccatgagc cgtcaggtgg tggatgatac taaatacaag gactaccaac aggtgggcat
19381 cctacaccaa cacaacaact ctggatttgt tggctacctt gcccccacca tgcgcgaagg
19441 acaggcctac cctgctaact tcccctatcc gcttataggc aagaccgcag ttgacagcat
19501 tacccagaaa aagtttcttt gcgatcgcac cctttggcgc atcccattct ccagtaactt
19561 tatgtccatg ggcgcactca cagacctggg ccaaaacctt ctctacgcca actccgccca
19621 cgcgctagac atgacttttg aggtggatcc catggacgag cccacccttc tttatgtttt
19681 gtttgaagtc tttgacgtgg tccgtgtgca ccggccgcac cgcggcgtca tcgaaaccgt
19741 gtacctgcgc acgcccttct cggccggcaa cgccacaaca taaagaagca agcaacatca
19801 acaacagctg ccgccatggg ctccagtgag caggaactga aagccattgt caaagatctt
19861 ggttgtgggc catatttttt gggcacctat gacaagcgct ttccaggctt tgtttctcca
19921 cacaagctcg cctgcgccat agtcaatacg gccggtcgcg agactggggg cgtacactgg
19981 atggcctttg cctggaaccc gcactcaaaa acatgctacc tctttgagcc ctttggcttt
20041 tctgaccagc gactcaagca ggtttaccag tttgagtacg agtcactcct gcgccgtagc
20101 gccattgctt cttcccccga ccgctgtata acgctggaaa agtccaccca aagcgtacag
20161 gggcccaact cggccgcctg tggactattc tgctgcatgt ttctccacgc ctttgccaac
20221 tggccccaaa ctcccatgga tcacaacccc accatgaacc ttattaccgg ggtacccaac
20281 tccatgctca acagtcccca ggtacagccc accctgcgtc gcaaccagga acagctctac
20341 agcttcctgg agcgccactc gccctacttc cgcagccaca gtgcgcagat taggagcgcc
20401 acttcttttt gtcacttgaa aaacatgtaa aaataatgta ctagagacac tttcaataaa
20461 ggcaaatgct ttatttgta cactctcggg tgattattta cccccaccct tgccgtctgc
20521 gccgtttaaa aatcaaaggg gttctgccgc gcatcgctat gcgccactgg cagggacacg
20581 ttgcgatact ggtgtttagt gctccactta aactcaggca caaccatccg cggcagctcg
20641 gtgaagtttt cactccacag gctgcgcacc atcaccaacg cgtttagcag gtcgggcgcc
20701 gatatcttga agtcgcagtt ggggcctccg ccctgcgcgc gcgagttgcg atacacaggg
20761 ttgcagcact ggaacactat cagcgccggg tggtgcacgc tggccagcac gctcttgtcg
20821 gagatcagat ccgcgtccag gtcctccgcg ttgctcaggg cgaacggagt caactttggt
20881 agctgccttc ccaaaaaggg cgcgtgccca ggctttgagt tgcactcgca ccgtagtggc
20941 atcaaaaggt gaccgtgccc ggtctgggcg ttaggataca gcgcctgcat aaaagccttg
21001 atctgcttaa aagccacctg agcctttgcg ccttcagaga agaacatgcc gcaagacttg
21061 ccggaaaact gattggccgg acaggccgcg tcgtgcacgc agcaccttgc gtcggtgttg
21121 gagatctgca ccacatttcg gccccaccgg ttcttcacga tcttggcctt gctagactgc
21181 tccttcagcg cgcgctgccc gttttcgctc gtcacatcca tttcaatcac gtgctcctta
21241 tttatcataa tgcttccgtg tagacactta agctcgcctt cgatctcagc gcagcggtgc
21301 agccacaacg cgcagcccgt gggctcgtga tgcttgtagg tcacctctgc aaacgactgc
21361 aggtacgcct gcaggaatcg ccccatcatc gtcacaaagg tcttgttgct ggtgaaggtc

Table 8 (continued) Nucleotide sequence of pAdenoTAG tRNA (SEQ ID NO: 85).

21421 agctgcaacc cgcggtgctc ctcgttcagc caggtcttgc atacggccgc cagagcttcc
21481 acttggtcag gcagtagttt gaagttcgcc tttagatcgt tatccacgtg gtacttgtcc
21541 atcagcgcgc gcgcagcctc catgcccttc tcccacgcag acacgatcgg cacactcagc
21601 gggttcatca ccgtaatttc actttccgct tcgctgggct cttcctcttc ctcttgcgtc
21661 cgcataccac gcgccactgg gtcgtcttca ttcagccgcc gcactgtgcg cttacctcct
21721 ttgccatgct tgattagcac cggtgggttg ctgaaaccca ccatttgtag cgccacatct
21781 tctctttctt cctcgctgtc cacgattacc tctggtgatg gcgggcgctc gggcttggga
21841 gaagggcgct tctttttctt cttgggcgca atggccaaat ccgccgccga ggtcgatggc
21901 cgcgggctgg gtgtgcgcgg caccagcgcg tcttgtgatg agtcttcctc gtcctcggac
21961 tcgatacgcc gcctcatccg cttttttggg ggcgcccggg gaggcggcgg cgacggggac
22021 ggggacgaca cgtcctccat ggttggggga cgtcgcgccg caccgcgtcc gcgctcgggg
22081 gtggtttcgc gctgctcctc ttcccgactg gccatttcct tctcctatag gcagaaaaag
22141 atcatggagt cagtcgagaa gaaggacagc ctaaccgccc cctctgagtt cgccaccacc
22201 gcctccaccg atgccgccaa cgcgcctacc accttccccg tcgaggcacc cccgcttgag
22261 gaggaggaag tgattatcga gcaggaccca ggttttgtaa gcgaagacga cgaggaccgc
22321 tcagtaccaa cagaggataa aaagcaagac caggacaacg cagaggcaaa cgaggaacaa
22381 gtcgggcggg gggacgaaag gcatggcgac tacctagatg tgggagacga cgtgctgttg
22441 aagcatctgc agcgccagtg cgccattatc tgcgacgcgt tgcaagagcg cagcgatgtg
22501 cccctcgcca tagcggatgt cagccttgcc tacgaacgcc acctattctc accgcgcgta
22561 ccccccaaac gccaagaaaa cggcacatgc gagcccaacc cgcgcctcaa cttctacccc
22621 gtatttgccg tgccagaggt gcttgccacc tatcacatct tttccaaaa ctgcaagata
22681 cccctatcct gccgtgccaa ccgcagccga gcggacaagc agctggcctt gcggcagggc
22741 gctgtcatac ctgatatcgc ctcgctcaac gaagtgccaa aaatctttga gggtcttgga
22801 cgcgacgaga agcgcgcggc aaacgctctg caacaggaaa acagcgaaaa tgaaagtcac
22861 tctggagtgt tggtggaact cgagggtgac aacgcgcgcc tagccgtact aaaacgcagc
22921 atcgaggtca cccactttgc ctacccggca cttaacctac cccccaaggt catgagcaca
22981 gtcatgagtg agctgatcgt gcgccgtgcg cagcccctgg agagggatgc aaatttgcaa
23041 gaacaaacag aggagggcct acccgcagtt ggcgacgagc agctagcgcg ctggcttcaa
23101 acgcgcgagc ctgccgactt ggaggagcga cgcaaactaa tgatggccgc agtgctcgtt
23161 accgtggagc ttgagtgcat gcagcggttc tttgctgacc cggagatgca gcgcaagcta
23221 gaggaaacat tgcactacac ctttcgacag ggctacgtac gccaggcctg caagatctcc
23281 aacgtggagc tctgcaacct ggtctcctac cttggaattt tgcacgaaaa ccgccttggg
23341 caaaacgtgc ttcattccac gctcaagggc gaggcgcgcc gcgactacgt ccgcgactgc
23401 gtttacttat ttctatgcta cacctggcag acggccatgg gcgtttggca gcagtgcttg
23461 gaggagtgca acctcaagga gctgcagaaa ctgctaaagc aaaacttgaa ggacctatgg
23521 acggccttca acgagcgctc cgtggccgcg cacctggcgg acatcatttt ccccgaacgc
23581 ctgcttaaaa ccctgcaaca gggtctgcca gacttcacca gtcaaagcat gttgcagaac
23641 tttaggaact ttatcctaga gcgctcagga atcttgcccg ccacctgctg tgcacttcct
23701 agcgactttg tgcccattaa gtaccgcgaa tgccctccgc cgctttgggg ccactgctac
23761 cttctgcagc tagccaacta ccttgcctac cactctgaca taatggaaga cgtgagcggt
23821 gacggtctac tggagtgtca ctgtcgctgc aacctatgca ccccgcaccg ctccctggtt
23881 tgcaattcgc agctgcttaa cgaaagtcaa attatcggta cctttgagct gcagggtccc
23941 tcgcctgacg aaaagtccgc ggctccgggg ttgaaactca ctccggggct gtggacgtcg
24001 gcttaccttc gcaaatttgt acctgaggac taccacgccc acgagattag gttctacgaa
24061 gaccaatccc gcccgccaaa tgcggagctt accgcctgcg tcattaccca gggccacatt

Table 8 (continued) Nucleotide sequence of pAdenoTAG tRNA (SEQ ID NO: 85).

24121 cttggccaat tgcaagccat caacaaagcc cgccaagagt ttctgctacg aaagggacgg
24181 ggggtttact tggaccccca gtccggcgag gagctcaacc caatcccccc gccgccgcag
24241 ccctatcagc agcagccgcg ggcccttgct tcccaggatg gcacccaaaa agaagctgca
24301 gctgccgccg ccacccacgg acgaggagga atactgggac agtcaggcag aggaggtttt
24361 ggacgaggag gaggaggaca tgatggaaga ctgggagagc ctagacgagg aagcttccga
24421 ggtcgaagag gtgtcagacg aaacaccgtc accctcggtc gcattcccct cgccggcgcc
24481 ccagaaatcg gcaaccggtt ccagcatggc tacaacctcc gctcctcagg cgccgccggc
24541 actgcccgtt cgccgaccca accgtagatg ggacaccact ggaaccaggg ccggtaagtc
24601 caagcagccg ccgccgttag cccaagagca acaacagcgc caaggctacc gctcatggcg
24661 cgggcacaag aacgccatag ttgcttgctt gcaagactgt gggggcaaca tctccttcgc
24721 ccgccgcttt cttctctacc atcacggcgt ggccttcccc cgtaacatcc tgcattacta
24781 ccgtcatctc tacagcccat actgcaccgg cggcagcggc agcggcagca acagcagcgg
24841 ccacacagaa gcaaaggcga ccggatagca agactctgac aaagcccaag aaatccacag
24901 cggcggcagc agcaggagga ggagcgctgc gtctggcgcc caacgaaccc gtatcgaccc
24961 gcgagcttag aaacaggatt tttcccactc tgtatgctat atttcaacag agcaggggcc
25021 aagaacaaga gctgaaaata aaaaacaggt ctctgcgatc cctcacccgc agctgcctgt
25081 atcacaaaag cgaagatcag cttcggcgca cgctggaaga cgcggaggct ctcttcagta
25141 aatactgcgc gctgactctt aaggactagt ttcgcgccct ttctcaaatt taagcgcgaa
25201 aactacgtca tctccagcgg ccacacccgg cgccagcacc tgtcgtcagc gccattatga
25261 gcaaggaaat tcccacgccc tacatgtgga gttaccagcc acaaatggga cttgcggctg
25321 gagctgccca agactactca acccgaataa actacatgag cgcgggaccc cacatgatat
25381 cccgggtcaa cggaatccgc gcccaccgaa accgaattct cttggaacag gcggctatta
25441 ccaccacacc tcgtaataac cttaatcccc gtagttggcc cgctgccctg gtgtaccagg
25501 aaagtcccgc tcccaccact gtggtacttc ccagagacgc ccaggccgaa gttcagatga
25561 ctaactcagg ggcgcagctt gcgggcggct ttcgtcacag ggtgcggtcg cccgggcagg
25621 gtataactca cctgacaatc agagggcgag gtattcagct caacgacgag tcggtgagct
25681 cctcgcttgg tctccgtccg gacgggacat ttcagatcgg cggcgccggc cgtccttcat
25741 tcacgcctcg tcaggcaatc ctaactctgc agacctcgtc ctctgagccg cgctctggag
25801 gcattggaac tctgcaattt attgaggagt ttgtgccatc ggtctacttt aaccccttct
25861 cgggacctcc cggccactat ccggatcaat ttattcctaa ctttgacgcg gtaaaggact
25921 cggcggacgg ctacgactga atgttaagtg gagaggcaga gcaactgcgc ctgaaacacc
25981 tggtccactg tcgccgccac aagtgctttg cccgcgactc cggtgagttt tgctactttg
26041 aattgcccga ggatcatatc gagggcccgg cgcacggcgt ccggcttacc gcccagggag
26101 agcttgcccg tagcctgatt cgggagttta cccagcgccc cctgctagtt gagcgggaca
26161 ggggaccctg tgttctcact gtgatttgca actgtcctaa ccttggatta catcaagatc
26221 tttgttgcca tctctgtgct gagtataata aatacagaaa ttaaaatata ctggggctcc
26281 tatcgccatc ctgtaaacgc caccgtcttc acccgcccaa gcaaaccaag gcgaacctta
26341 cctggtactt ttaacatctc tccctctgtg atttacaaca gtttcaaccc agacggagtg
26401 agtctacgag agaacctctc cgagctcagc tactccatca gaaaaaacac caccctcctt
26461 acctgccggg aacgtacgag tgcgtcaccg gccgctgcac cacacctacc gcctgaccgt
26521 aaaccagact ttttccggac agacctcaat aactctgttt accagaacag gaggtgagct
26581 tagaaaaccc ttagggtatt aggccaaagg cgcagctact gtggggttta tgaacaattc
26641 aagcaactct acgggctatt ctaattcagg tttctctaga aatggacgga attattacag
26701 agcagcgcct gctagaaaga cgcagggcag cggccgagca acagcgcatg aatcaagagc
26761 tccaagacat ggttaacttg caccagtgca aaggggtat cttttgtctg gtaaagcagg

Table 8 (continued) Nucleotide sequence of pAdenoTAG tRNA (SEQ ID NO: 85).

26821 ccaaagtcac ctacgacagt aataccaccg gacaccgcct tagctacaag ttgccaacca
26881 agcgtcagaa attggtggtc atggtgggag aaaagcccat taccataact cagcactcgg
26941 tagaaaccga aggctgcatt cactcacctt gtcaaggacc tgaggatctc tgcaccctta
27001 ttaagaccct gtgcggtctc aaagatctta ttccctttaa ctaataaaaa aaaataataa
27061 agcatcactt acttaaaatc agttagcaaa tttctgtcca gtttattcag cagcacctcc
27121 ttgccctcct cccagctctg gtattgcagc ttcctcctgg ctgcaaactt tctccacaat
27181 ctaaatggaa tgtcagtttc ctcctgttcc tgtccatccg cacccactat cttcatgttg
27241 ttgcagatga agcgcgcaag accgtctgaa gataccttca accccgtgta tccatatgac
27301 acggaaaccg gtcctccaac tgtgcctttt cttactcctc cctttgtatc ccccaatggg
27361 tttcaagaga gtccccctgg ggtactctct ttgcgcctat ccgaacctct agttacctcc
27421 aatggcatgc ttgcgctcaa aatgggcaac ggcctctctc tggacgaggc cggcaacctt
27481 acctcccaaa atgtaaccac tgtgagccca cctctcaaaa aaaccaagtc aaacataaac
27541 ctggaaatat ctgcacccct cacagttacc tcagaagccc taactgtggc tgccgccgca
27601 cctctaatgg tcgcgggcaa cacactcacc atgcaatcac aggccccgct aaccgtgcac
27661 gactccaaac ttagcattgc cacccaagga cccctcacag tgtcagaagg aaagctagcc
27721 ctgcaaacat caggcccccct caccaccacc gatagcagta cccttactat cactgcctca
27781 ccccctctaa ctactgccac tggtagcttg ggcattgact tgaaagagcc catttataca
27841 caaaatggaa aactaggact aaagtacggg gctcctttgc atgtaacaga cgacctaaac
27901 actttgaccg tagcaactgg tccaggtgtg actattaata atacttcctt gcaaactaaa
27961 gttactggag ccttgggttt tgattcacaa ggcaatatgc aacttaatgt agcaggagga
28021 ctaaggattg attctcaaaa cagacgcctt atacttgatg ttagttatcc gtttgatgct
28081 caaaaccaac taaatctaag actaggacag ggccctcttt ttataaactc agcccacaac
28141 ttggatatta actacaacaa aggcctttac ttgtttacag cttcaaacaa ttccaaaaag
28201 cttgaggtta acctaagcac tgccaagggg ttgatgtttg acgctacagc catagccatt
28261 aatgcaggag atgggcttga atttggttca cctaatgcac caaacacaaa tcccctcaaa
28321 acaaaaattg gccatggcct agaatttgat tcaaacaagg ctatggttcc taaactagga
28381 actggcctta gttttgacag cacaggtgcc attacagtag gaaacaaaaa taatgataag
28441 ctaactttgt ggaccacacc agctccatct cctaactgta gactaaatgc agagaaagat
28501 gctaaactca ctttggtctt aacaaaatgt ggcagtcaaa tacttgctac agtttcagtt
28561 ttggctgtta aaggcagttt ggctccaata tctggaacag ttcaaagtgc tcatcttatt
28621 ataagatttg acgaaaatgg agtgctacta aacaattcct tcctggaccc agaatattgg
28681 aactttagaa atggagatct tactgaaggc acagcctata caaacgctgt tggatttatg
28741 cctaacctat cagcttatcc aaaatctcac ggtaaaactg ccaaaagtaa cattgtcagt
28801 caagtttact taaacggaga caaaactaaa cctgtaacac taaccattac actaaacggt
28861 acacaggaaa caggagacac aactccaagt gcatactcta tgtcattttc atgggactgg
28921 tctggccaca actacattaa tgaaatattt gccacatcct cttacacttt ttcatacatt
28981 gcccaagaat aaagaatcgt ttgtgttatg tttcaacgtg tttatttttc aattgcagaa
29041 aatttcgaat catttttcat tcagtagtat agccccacca ccacatagct tatacagatc
29101 accgtacctt aatcaaactc acagaaccct agtattcaac ctgccacctc cctcccaaca
29161 cacagagtac acagtccttt ctccccggct ggccttaaaa agcatcatat catgggtaac
29221 agacatattc ttaggtgtta tattccacac ggtttcctgt cgagccaaac gctcatcagt
29281 gatattaata aactccccgg gcagctcact taagttcatg tcgctgtcca gctgctgagc
29341 cacaggctgc tgtccaactt gcggttgctt aacgggcggc gaaggagaag tccacgccta
29401 catgggggta gagtcataat cgtgcatcag gatagggcgg tggtgctgca gcagcgcgcg
29461 aataaactgc tgccgccgcc gctccgtcct gcaggaatac aacatggcag tggtctcctc

Table 8 (continued) Nucleotide sequence of pAdenoTAG tRNA (SEQ ID NO: 85).

29521 agcgatgatt cgcaccgccc gcagcataag gcgccttgtc ctccgggcac agcagcgcac
29581 cctgatctca cttaaatcag cacagtaact gcagcacagc accacaatat tgttcaaaat
29641 cccacagtgc aaggcgctgt atccaaagct catggcgggg accacagaac ccacgtggcc
29701 atcataccac aagcgcaggt agattaagtg gcgacccctc ataaacacgc tggacataaa
29761 cattacctct tttggcatgt tgtaattcac cacctcccgg taccatataa acctctgatt
29821 aaacatggcg ccatccacca ccatcctaaa ccagctggcc aaaacctgcc cgccggctat
29881 acactgcagg gaaccgggac tggaacaatg acagtggaga gcccaggact cgtaaccatg
29941 gatcatcatg ctcgtcatga tatcaatgtt ggcacaacac aggcacacgt gcatacactt
30001 cctcaggatt acaagctcct cccgcgttag aaccatatcc cagggaacaa cccattcctg
30061 aatcagcgta aatcccacac tgcagggaag acctcgcacg taactcacgt tgtgcattgt
30121 caaagtgtta cattcgggca gcagcggatg atcctccagt atggtagcgc gggtttctgt
30181 ctcaaaagga ggtagacgat ccctactgta cggagtgcgc cgagacaacc gagatcgtgt
30241 tggtcgtagt gtcatgccaa atggaacgcc ggacgtagtc atatttcctg aagcaaaacc
30301 aggtgcgggc gtgacaaaca gatctgcgtc tccggtctcg ccgcttagat cgctctgtgt
30361 agtagttgta gtatatccac tctctcaaag catccaggcg ccccctggct tcgggttcta
30421 tgtaaactcc ttcatgcgcc gctgccctga taacatccac caccgcagaa taagccacac
30481 ccagccaacc tacacattcg ttctgcgagt cacacacggg aggagcggga agagctggaa
30541 gaaccatgtt ttttttttta ttccaaaaga ttatccaaaa cctcaaaatg aagatctatt
30601 aagtgaacgc gctcccctcc ggtggcgtgg tcaaactcta cagccaaaga acagataatg
30661 gcatttgtaa gatgttgcac aatggcttcc aaaaggcaaa cggccctcac gtccaagtgg
30721 acgtaaaggc taaacccttc agggtgaatc tcctctataa acattccagc accttcaacc
30781 atgcccaaat aattctcatc tcgccacctt ctcaatatat ctctaagcaa atcccgaata
30841 ttaagtccgg ccattgtaaa aatctgctcc agagcgccct ccaccttcag cctcaagcag
30901 cgaatcatga ttgcaaaaat tcaggttcct cacagacctg tataagattc aaaagcggaa
30961 cattaacaaa aataccgcga tcccgtaggt cccttcgcag ggccagctga acataatcgt
31021 gcaggtctgc acggaccagc gcggccactt ccccgccagg aaccttgaca aaagaaccca
31081 cactgattat gacacgcata ctcggagcta tgctaaccag cgtagccccg atgtaagctt
31141 tgttgcatgg gcggcgatat aaaatgcaag gtgctgctca aaaaatcagg caaagcctcg
31201 cgcaaaaaag aaagcacatc gtagtcatgc tcatgcagat aaaggcaggt aagctccgga
31261 accaccacag aaaaagacac catttttctc tcaaacatgt ctgcgggttt ctgcataaac
31321 acaaaataaa ataacaaaaa aacatttaaa cattagaagc ctgtcttaca acaggaaaaa
31381 caacccttat aagcataaga cggactacgg ccatgccggc gtgaccgtaa aaaaactggt
31441 caccgtgatt aaaaagcacc accgacagct cctcggtcat gtccggagtc ataatgtaag
31501 actcggtaaa cacatcaggt tgattcacat cggtcagtgc taaaaagcga ccgaaatagc
31561 ccgggggaat acatacccgc aggcgtagag acaacattac agcccccata ggaggtataa
31621 caaaattaat aggagagaaa aacacataaa cacctgaaaa accctcctgc ctaggcaaaa
31681 tagcaccctc ccgctccaga acaacataca gcgcttccac agcggcagcc ataacagtca
31741 gccttaccag taaaaaagaa aacctattaa aaaaacacca ctcgacacgg caccagctca
31801 atcagtcaca gtgtaaaaaa gggccaagtg cagagcgagt atatatagga ctaaaaaatg
31861 acgtaacggt taaagtccac aaaaaacacc cagaaaaccg cacgcgaacc tacgcccaga
31921 aacgaaagcc aaaaaaccca caacttcctc aaatcgtcac ttccgttttc ccacgttacg
31981 tcacttccca ttttaagaaa actacaattc ccaacacata caagttactc cgccctaaaa
32041 cctacgtcac ccgccccgtt cccacgcccc gcgccacgtc acaaactcca ccccctcatt
32101 atcatattgg cttcaatcca aaataaggta tattattgat gatgttaatt aatttaaatc
32161 cgcatgcgat atcgagctct cccgggaatt cggatctgcg acgcgaggct ggatggcctt

Table 8 (continued) Nucleotide sequence of pAdenoTAG tRNA (SEQ ID NO: 85).

32221 ccccattatg attcttctcg cttccggcgg catcgggatg cccgcgttgc aggccatgct
32281 gtccaggcag gtagatgacg accatcaggg acagcttcac ggccagcaaa aggccaggaa
32341 ccgtaaaaag gccgcgttgc tggcgttttt ccataggctc cgcccccctg acgagcatca
32401 caaaaatcga cgctcaagtc agaggtggcg aaacccgaca ggactataaa gataccaggc
32461 gtttccccct ggaagctccc tcgtgcgctc tcctgttccg accctgccgc ttaccggata
32521 cctgtccgcc tttctccctt cgggaagcgt ggcgctttct caatgctcac gctgtaggta
32581 tctcagttcg gtgtaggtcg ttcgctccaa gctgggctgt gtgcacgaac cccccgttca
32641 gcccgaccgc tgcgccttat ccggtaacta tcgtcttgag tccaacccgg taagacacga
32701 cttatcgcca ctggcagcag ccactggtaa caggattagc agagcgaggt atgtaggcgg
32761 tgctacagag ttcttgaagt ggtggcctaa ctacggctac actagaagga cagtatttgg
32821 tatctgcgct ctgctgaagc cagttacctt cggaaaaaga gttggtagct cttgatccgg
32881 caaacaaacc accgctggta gcggtggttt ttttgtttgc aagcagcaga ttacgcgcag
32941 aaaaaaagga tctcaagaag atcctttgat cttttctacg gggtctgacg ctcagtggaa
33001 cgaaaactca cgttaaggga ttttggtcat gagattatca aaaaggatct tcacctagat
33061 ccttttaaat caatctaaag tatatatgag taaacttggt ctgacagtta ccaatgctta
33121 atcagtgagg cacctatctc agcgatctgt ctatttcgtt catccatagt tgcctgactc
33181 cccgtcgtgt agataactac gatacgggag ggcttaccat ctggccccag tgctgcaatg
33241 ataccgcgag acccacgctc accggctcca gatttatcag caataaacca gccagccgga
33301 agggccgagc gcagaagtgg tcctgcaact ttatccgcct ccatccagtc tattaattgt
33361 tgccgggaag ctagagtaag tagttcgcca gttaatagtt tgcgcaacgt tgttgccatt
33421 gntgcaggca tcgtggtgtc acgctcgtcg tttggtatgg cttcattcag ctccggttcc
33481 caacgatcaa ggcgagttac atgatccccc atgttgtgca aaaaagcggt tagctccttc
33541 ggtcctccga tcgttgtcag aagtaagttg gccgcagtgt tatcactcat ggttatggca
33601 gcactgcata attctcttac tgtcatgcca tccgtaagat gcttttctgt gactggtgag
33661 tactcaacca agtcattctg agaatagtgt atgcggcgac cgagttgctc ttgcccggcg
33721 tcaacacggg ataataccgc gccacatagc agaactttaa aagtgctcat cattggaaaa
33781 cgttcttcgg ggcgaaaact ctcaaggatc ttaccgctgt tgagatccag ttcgatgtaa
33841 cccactcgtg cacccaactg atcttcagca tcttttactt tcaccagcgt ttctgggtga
33901 gcaaaaacag gaaggcaaaa tgccgcaaaa aagggaataa gggcgacacg gaaatgttga
33961 atactcatac tcttcctttt tcaatattat tgaagcattt atcagggtta ttgtctcatg
34021 agcggataca tatttgaatg tatttagaaa aataaacaaa taggggttcc gcgcacattt
34081 ccccgaaaag tgccacctga cgtctaagaa accattatta tcatgacatt aacctataaa
34141 aataggcgta tcacgaggcc ctttcgtctt caaggatccg aattcccggg agagctcgat
34201 atcgcatgcg gatttaaatt aattaa

Please amend Table 9 on page 375 as follows:

Table 9: Nucleotide sequence of a Sau3A fragment used to construct vectors comprising suppressor tRNA sequences (SEQ ID NO: 86).

```
  1 ctagaggatc gaaaccatcc tctgctatat ggccgcatat attttacttg aagactagga
 61 ccctacagaa aaggggtttt aaagtaggcg tgctaaacgt cagcggacct gacccgtgta
121 agaatccaca aggtatcctg gtggaaatgc gcatttgtag gcttcaatat ctgtaatcct
181 actaattagg tgtggagagc tttcagccag tttcgtaggt ttggagacca tttaggggtt
241 ggcgtgtggc cccctcgtaa agtctttcgt acttcctaca tcagacaagt cttgcaattt
301 gcaatatctc ttttagccaa tatctaaatc tttaaaattt tgattttgtt ttttaaccag
361 gatgagagac attccagagt tgttaccttg tcaaaataaa caaatttaaa gatgtctgtg
421 aaaagaaaca tatattcctc atgggaatat atccaggttg ttgaaggagg tacactcgag
481 tctccctatc agtgatagag atctcgaggt cgtagtcgtg gccgagtggt taaggcgatg
541 gactctaaat ccattggggt ctccccgcgc aggttcgaat cctgccgact acggcgtgct
601 ttttttactc tcgggtagag gaaatccggt gcactacctg tgcaatcaca cagaataaca
661 tggagtagta ctttttattt tcctgttatt atctttctcc ataaaagtgg aaccagataa
721 ttttagttct tttgtgtaac aagactagag attttttgaa gtgttacatt ggaaagcact
781 tgaaaacaca agtaatttct gacactgcta taaaaatgat ggaaaaacgc tcaagttgtt
841 ttgcctttca gtcttcttga aatgctgtct ccctatctga aatccagctc acgtctgact
901 tccaaaaccg tgcttgcctt taacttatgg aataaatatc tcaaacagat cccc
```

Please amend Table 10 on pages 376-384 as follows:

Table 10: Nucleotide sequence of pAd/PL-DEST™ (SEQ ID NO: 87).

CATCATCAATAATATACCTTATTTTGGATTGAAGCCAATATGATAATGAGGGGGTGGAGTTTGTGACGTG
GCGCGGGGCGTGGGAACGGGGCGGGTGACGTAGTAGTGTGGCGGAAGTGTGATGTTGCAAGTGTGGCGGA
ACACATGTAAGCGACGGATGTGGCAAAAGTGACGTTTTTGGTGTGCGCCGGTGTACACAGGAAGTGACAA
TTTTCGCGCGGTTTTAGGCGGATGTTGTAGTAAATTTGGGCGTAACCGAGTAAGATTTGGCCATTTTCGC
GGGAAAACTGAATAAGAGGAAGTGAAATCTGAATAATTTTGTGTTACTCATAGCGCGTAATATTTGTCTA
GGGCCGCGGGGACTTTGACCGTTTACGTGGAGACTCGCCCAGGTGTTTTTCTCAGGTGTTTTCCGCGTTC
CGGGTCAAAGTTGGCGTTTTATTATTATAGTCAGTCGAAGCTTGGATCCGGTACCTCTAGAATTCTCGAG
CGGCCGCTAGCGACATCGATCACAAGTTTGTACAAAAAAGCTGAACGAGAAACGTAAAATGATATAAATA
TCAATATATTAAATTAGATTTTGCATAAAAAACAGACTACATAATACTGTAAAACACAACATATCCAGTC
ACTATGGCGGCCGCATTAGGCACCCCAGGCTTTACACTTTATGCTTCCGGCTCGTATAATGTGTGGATTT
TGAGTTAGGATCCGGCGAGATTTTCAGGAGCTAAGGAAGCTAAAATGGAGAAAAAAATCACTGGATATAC
CACCGTTGATATATCCCAATGGCATCGTAAAGAACATTTTGAGGCATTTCAGTCAGTTGCTCAATGTACC
TATAACCAGACCGTTCAGCTGGATATTACGGCCTTTTTAAAGACCGTAAAGAAAAATAAGCACAAGTTTT
ATCCGGCCTTTATTCACATTCTTGCCCGCCTGATGAATGCTCATCCGGAATTCCGTATGGCAATGAAAGA
CGGTGAGCTGGTGATATGGGATAGTGTTCACCCTTGTTACACCGTTTTCCATGAGCAAACTGAAACGTTT
TCATCGCTCTGGAGTGAATACCACGACGATTTCCGGCAGTTTCTACACATATATTCGCAAGATGTGGCGT
GTTACGGTGAAAACCTGGCCTATTTCCCTAAAGGGTTTATTGAGAATATGTTTTTCGTCTCAGCCAATCC
CTGGGTGAGTTTCACCAGTTTTGATTTAAACGTGGCCAATATGGACAACTTCTTCGCCCCCGTTTTCACC
ATGGGCAAATATTATACGCAAGGCGACAAGGTGCTGATGCCGCTGGCGATTCAGGTTCATCATGCCGTCT
GTGATGGCTTCCATGTCGGCAGAATGCTTAATGAATTACAACAGTACTGCGATGAGTGGCAGGGCGGGGC
GTAAACGCGTGGATCCGGCTTACTAAAAGCCAGATAACAGTATGCGTATTTGCGCGCTGATTTTTGCGGT
ATAAGAATATATACTGATATGTATACCCGAAGTATGTCAAAAAGAGGTGTGCTATGAAGCAGCGTATTAC
AGTGACAGTTGACAGCGACAGCTATCAGTTGCTCAAGGCATATATGATGTCAATATCTCCGGTCTGGTAA
GCACAACCATGCAGAATGAAGCCCGTCGTCTGCGTGCCGAACGCTGGAAAGCGGAAAATCAGGAAGGGAT
GGCTGAGGTCGCCCGGTTTATTGAAATGAACGGCTCTTTTGCTGACGAGAACAGGGACTGGTGAAATGCA
GTTTAAGGTTTACACCTATAAAAGAGAGAGCCGTTATCGTCTGTTTGTGGATGTACAGAGTGATATTATT
GACACGCCCGGGCGACGGATGGTGATCCCCCTGGCCAGTGCACGTCTGCTGTCAGATAAAGTCTCCCGTG
AACTTTACCCGGTGGTGCATATCGGGGATGAAAGCTGGCGCATGATGACCACCGATATGGCCAGTGTGCC
GGTCTCCGTTATCGGGGAAGAAGTGGCTGATCTCAGCCACCGCGAAAATGACATCAAAAACGCCATTAAC
CTGATGTTCTGGGGAATATAAATGTCAGGCTCCGTTATACACAGCCAGTCTGCAGGTCGACCATAGTGAC
TGGATATGTTGTGTTTTACAGTATTATGTAGTCTGTTTTTTATGCAAAATCTAATTTAATATATTGATAT
TTATATCATTTTACGTTTCTCGTTCAGCTTTCTTGTACAAAGTGGTGATCGATTCGACAGATCACTGAAA
TGTGTGGGCGTGGCTTAAGGGTGGGAAAGAATATATAAGGTGGGGGTCTTATGTAGTTTTGTATCTGTTT
TGCAGCAGCCGCCGCCGCCATGAGCACCAACTCGTTTGATGGAAGCATTGTGAGCTCATATTTGACAACG
CGCATGCCCCCATGGGCCGGGGTGCGTCAGAATGTGATGGGCTCCAGCATTGATGGTCGCCCCGTCCTGC
CCGCAAACTCTACTACCTTGACCTACGAGACCGTGTCTGGAACGCCGTTGGAGACTGCAGCCTCCGCCGC
CGCTTCAGCCGCTGCAGCCACCGCCCGCGGGATTGTGACTGACTTTGCTTTCCTGAGCCCGCTTGCAAGC
AGTGCAGCTTCCCGTTCATCCGCCCGCGATGACAAGTTGACGGCTCTTTTGGCACAATTGGATTCTTTGA
CCCGGGAACTTAATGTCGTTTCTCAGCAGCTGTTGGATCTGCGCCAGCAGGTTTCTGCCCTGAAGGCTTC
CTCCCCTCCCAATGCGGTTTAAAACATAAATAAAAAACCAGACTCTGTTTGGATTTGGATCAAGCAAGTG
TCTTGCTGTCTTTATTTAGGGGTTTTGCGCGCGCGGTAGGCCCGGGACCAGCGGTCTCGGTCGTTGAGGG
TCCTGTGTATTTTTTCCAGGACGTGGTAAAGGTGACTCTGGATGTTCAGATACATGGGCATAAGCCCGTC
TCTGGGGTGGAGGTAGCACCACTGCAGAGCTTCATGCTGCGGGGTGGTGTTGTAGATGATCCAGTCGTAG
CAGGAGCGCTGGGCGTGGTGCCTAAAAATGTCTTTCAGTAGCAAGCTGATTGCCAGGGGCAGGCCCTTGG
TGTAAGTGTTTACAAAGCGGTTAAGCTGGGATGGGTGCATACGTGGGGATATGAGATGCATCTTGGACTG
TATTTTTAGGTTGGCTATGTTCCCAGCCATATCCCTCCGGGGATTCATGTTGTGCAGAACCACCAGCACA
GTGTATCCGGTGCACTTGGGAAATTTGTCATGTAGCTTAGAAGGAAATGCGTGGAAGAACTTGGAGACGC
CCTTGTGACCTCCAAGATTTCCATGCATTCGTCCATAATGATGGCAATGGGCCCACGGGCGGCGGCCTG
GGCGAAGATATTTCTGGGATCACTAACGTCATAGTTGTGTTCCAGGATGAGATCGTCATAGGCCATTTTT
ACAAAGCGCGGGCGGAGGGTGCCAGACTGCGGTATAATGGTTCCATCCGGCCCAGGGGCGTAGTTACCCT
CACAGATTTGCATTTCCCACGCTTTGAGTTCAGATGGGGGATCATGTCTACCTGCGGGGCGATGAAGAA
AACGGTTTCCGGGGTAGGGGAGATCAGCTGGGAAGAAAGCAGGTTCCTGAGCAGCTGCGACTTACCGCAG
CCGGTGGGCCCGTAAATCACACCTATTACCGGGTGCAACTGGTAGTTAAGAGAGCTGCAGCTGCCGTCAT

Table 10 (continued) Nucleotide sequence of pAd/PL-DEST™ (SEQ ID NO: 87).

CCCTGAGCAGGGGGCCACTTCGTTAAGCATGTCCCTGACTCGCATGTTTTCCCTGACCAAATCCGCCAG
AAGGCGCTCGCCGCCCAGCGATAGCAGTTCTTGCAAGGAAGCAAAGTTTTTCAACGGTTTGAGACCGTCC
GCCGTAGGCATGCTTTTGAGCGTTTGACCAAGCAGTTCCAGGCGGTCCCACAGCTCGGTCACCTGCTCTA
CGGCATCTCGATCCAGCATATCTCCTCGTTTCGCGGGTTGGGGCGGCTTTCGCTGTACGGCAGTAGTCGG
TGCTCGTCCAGACGGGCCAGGGTCATGTCTTTCCACGGGCGCAGGGTCCTCGTCAGCGTAGTCTGGGTCA
CGGTGAAGGGGTGCGCTCCGGGCTGCGCGCTGGCCAGGGTGCGCTTGAGGCTGGTCCTGCTGGTGCTGAA
GCGCTGCCGGTCTTCGCCCTGCGCGTCGGCCAGGTAGCATTTGACCATGGTGTCATAGTCCAGCCCCTCC
GCGGCGTGGCCCTTGGCGCGCAGCTTGCCCTTGGAGGAGGCGCCGCACGAGGGGCAGTGCAGACTTTTGA
GGGCGTAGAGCTTGGGCGCGAGAAATACCGATTCCGGGGAGTAGGCATCCGCGCCGCAGGCCCCGCAGAC
GGTCTCGCATTCCACGAGCCAGGTGAGCTCTGGCCGTTCGGGGTCAAAAACCAGGTTTCCCCCATGCTTT
TTGATGCGTTTCTTACCTCTGGTTTCCATGAGCCGGTGTCCACGCTCGGTGACGAAAAGGCTGTCCGTGT
CCCCGTATACAGACTTGAGAGGCCTGTCCTCGAGCGGTGTTCCGCGGTCCTCCTCGTATAGAAACTCGGA
CCACTCTGAGACAAAGGCTCGCGTCCAGGCCAGCACGAAGGAGGCTAAGTGGGAGGGGTAGCGGTCGTTG
TCCACTAGGGGGTCCACTCGCTCCAGGGTGTGAAGACACATGTCGCCCTCTTCGGCATCAAGGAAGGTGA
TTGGTTTGTAGGTGTAGGCCACGTGACCGGGTGTTCCTGAAGGGGGGCTATAAAAGGGGGTGGGGGCGCG
TTCGTCCTCACTCTCTTCCGCATCGCTGTCTGCGAGGGCCAGCTGTTGGGGTGAGTACTCCCTCTGAAAA
GCGGGCATGACTTCTGCGCTAAGATTGTCAGTTTCCAAAAACGAGGAGGATTTGATATTCACCTGGCCCG
CGGTGATGCCTTTGAGGGTGGCCGCATCCATCTGGTCAGAAAAGACAATCTTTTTGTTGTCAAGCTTGGT
GGCAAACGACCCGTAGAGGGCGTTGGACAGCAACTTGGCGATGGAGCGCAGGGTTTGGTTTTTGTCGCGA
TCGGCGCGCTCCTTGGCCGCGATGTTTAGCTGCACGTATTCGCGCGCAACGCACCGCCATTCGGGAAAGA
CGGTGGTGCGCTCGTCGGGCACCAGGTGCACGCGCCAACCGCGGTTGTGCAGGGTGACAAGGTCAACGCT
GGTGGCTACCTCTCCGCGTAGGCGCTCGTTGGTCCAGCAGAGGCGGCCGCCCTTGCGCGAGCAGAATGGC
GGTAGGGGGTCTAGCTGCGTCTCGTCCGGGGGGTCTGCGTCCACGGTAAAGACCCCGGGCAGCAGGCGCG
CGTCGAAGTAGTCTATCTTGCATCCTTGCAAGTCTAGCGCCTGCTGCCATGCGCGGGCGGCAAGCGCGCG
CTCGTATGGGTTGAGTGGGGGACCCCATGGCATGGGGTGGGTGAGCGCGGAGGCGTACATGCCGCAAATG
TCGTAAACGTAGAGGGGCTCTCTGAGTATTCCAAGATATGTAGGGTAGCATCTTCCACCGCGGATGCTGG
CGCGCACGTAATCGTATAGTTCGTGCGAGGGAGCGAGGAGGTCGGGACCGAGGTTGCTACGGGCGGGCTG
CTCTGCTCGGAAGACTATCTGCCTGAAGATGGCATGTGAGTTGGATGATATGGTTGGACGCTGGAAGACG
TTGAAGCTGGCGTCTGTGAGACCTACCGCGTCACGCACGAAGGAGGCGTAGGAGTCGCGCAGCTTGTTGA
CCAGCTCGGCGGTGACCTGCACGTCTAGGGCGCAGTAGTCCAGGGTTTCCTTGATGATGTCATACTTATC
CTGTCCCTTTTTTTTCCACAGCTCGCGGTTGAGGACAAACTCTTCGCGGTCTTTCCAGTACTCTTGGATC
GGAAACCCGTCGGCCTCCGAACGGTAAGAGCCTAGCATGTAGAACTGGTTGACGGCCTGGTAGGCGCAGC
ATCCCTTTTCTACGGGTAGCGCGTATGCCTGCGCGGCCTTCCGGAGCGAGGTGTGGGTGAGCGCAAAGGT
GTCCCTGACCATGACTTTGAGGTACTGGTATTTGAAGTCAGTGTCGTCGCATCCGCCCTGCTCCCAGAGC
AAAAAGTCCGTGCGCTTTTTGGAACGCGGATTTGGCAGGGCGAAGGTGACATCGTTGAAGAGTATCTTTC
CCGCGCGAGGCATAAAGTTGCGTGTGATGCGGAAGGGTCCCGGCACCTCGGAACGGTTGTTAATTACCTG
GGCGGCGAGCACGATCTCGTCAAAGCCGTTGATGTTGTGGCCCACAATGTAAAGTTCCAAGAAGCGCGGG
ATGCCCTTGATGGAAGGCAATTTTTTAAGTTCCTCGTAGGTGAGCTCTTCAGGGGAGCTGAGCCCGTGCT
CTGAAAGGGCCCAGTCTGCAAGATGAGGGTTGGAAGCGACGAATGAGCTCCACAGGTCACGGGCCATTAG
CATTTGCAGGTGGTCGCGAAAGGTCCTAAACTGGCGACCTATGGCCATTTTTTCTGGGGTGATGCAGTAG
AAGGTAAGCGGGTCTTGTTCCCAGCGGTCCCATCCAAGGTTCGCGGCTAGGTCTCGCGCGGCAGTCACTA
GAGGCTCATCTCCGCCGAACTTCATGACCAGCATGAAGGGCACGAGCTGCTTCCCAAAGGCCCCCATCCA
AGTATAGGTCTCTACATCGTAGGTGACAAAGAGACGCTCGGTGCGAGGATGCGAGCCGATCGGGAAGAAC
TGGATCTCCCGCCACCAATTGGAGGAGTGGCTATTGATGTGGTGAAAGTAGAAGTCCCTGCGACGGGCCG
AACACTCGTGCTGGCTTTTGTAAAAACGTGCGCAGTACTGGCAGCGGTGCACGGGCTGTACATCCTGCAC
GAGGTTGACCTGACGACCGCGCACAAGGAAGCAGAGTGGGAATTTGAGCCCCTCGCCTGGCGGGTTTGGC
TGGTGGTCTTCTACTTCGGCTGCTTGTCCTTGACCGTCTGGCTGCTCGAGGGGAGTTACGGTGGATCGGA
CCACCACGCCGCGCGAGCCCAAAGTCCAGATGTCCGCGCGCGGCGGTCGGAGCTTGATGACAACATCGCG
CAGATGGGAGCTGTCCATGGTCTGGAGCTCCCGCGGCGTCAGGTCAGGCGGGAGCTCCTGCAGGTTTACC
TCGCATAGACGGGTCAGGGCGCGGGCTAGATCCAGGTGATACCTAATTTCCAGGGGCTGGTTGGTGGCGG
CGTCGATGGCTTGCAAGAGGCCGCATCCCCGCGGCGCGACTACGGTACCGCGCGGCGGGCGGTGGGCCGC
GGGGGTGTCCTTGGATGATGCATCTAAAAGCGGTGACGCGGGCGAGCCCCCGGAGGTAGGGGGGGCTCCG
GACCCGCCGGGAGAGGGGGCAGGGGCACGTCGGCGCCGCGCGCGGGCAGGAGCTGGTGCTGCGCGCGTAG
GTTGCTGGCGAACGCGACGACGCGGCGGTTGATCTCCTGAATCTGGCGCCTCTGCGTGAAGACGACGGGC
CCGGTGAGCTTGAGCCTGAAAGAGAGTTCGACAGAATCAATTTCGGTGTCGTTGACGGCGGCCTGGCGCA

Table 10 (continued) Nucleotide sequence of pAd/PL-DEST™ (SEQ ID NO: 87).

AAATCTCCTGCACGTCTCCTGAGTTGTCTTGATAGGCGATCTCGGCCATGAACTGCTCGATCTCTTCCTC
CTGGAGATCTCCGCGTCCGGCTCGCTCCACGGTGGCGGCGAGGTCGTTGGAAATGCGGGCCATGAGCTGC
GAGAAGGCGTTGAGGCCTCCCTCGTTCCAGACGCGGCTGTAGACCACGCCCCCTTCGGCATCGCGGGCGC
GCATGACCACCTGCGCGAGATTGAGCTCCACGTGCCGGGCGAAGACGGCGTAGTTTCGCAGGCGCTGAAA
GAGGTAGTTGAGGGTGGTGGCGGTGTGTTCTGCCACGAAGAAGTACATAACCCAGCGTCGCAACGTGGAT
TCGTTGATATCCCCCAAGGCCTCAAGGCGCTCCATGGCCTCGTAGAAGTCCACGGCGAAGTTGAAAAACT
GGGAGTTGCGCGCCGACACGGTTAACTCCTCCTCCAGAAGACGGATGAGCTCGGCGACAGTGTCGCGCAC
CTCGCGCTCAAAGGCTACAGGGGCCTCTTCTTCTTCTTCAATCTCCTCTTCCATAAGGGCCTCCCCTTCT
TCTTCTTCTGGCGGCGGTGGGGGAGGGGGGACACGGCGGCGACGACGGCGCACCGGGAGGCGGTCGACAA
AGCGCTCGATCATCTCCCCGCGGCGACGGCGCATGGTCTCGGTGACGGCGCGGCCGTTCTCGCGGGGGCG
CAGTTGGAAGACGCCGCCCGTCATGTCCCGGTTATGGGTTGGCGGGGGGCTGCCATGCGGCAGGGATACG
GCGCTAACGATGCATCTCAACAATTGTTGTGTAGGTACTCCGCCGCCGAGGGACCTGAGCGAGTCCGCAT
CGACCGGATCGGAAAACCTCTCGAGAAAGGCGTCTAACCAGTCACAGTCGCAAGGTAGGCTGAGCACCGT
GGCGGGCGGCAGCGGGCGGCGGTCGGGGTTGTTTCTGGCGGAGGTGCTGCTGATGATGTAATTAAAGTAG
GCGGTCTTGAGACGGCGGATGGTCGACAGAAGCACCATGTCCTTGGGTCCGGCCTGCTGAATGCGCAGGC
GGTCGGCCATGCCCCAGGCTTCGTTTTGACATCGGCGCAGGTCTTTGTAGTAGTCTTGCATGAGCCTTTC
TACCGGCACTTCTTCTTCTCCTTCCTCTTGTCCTGCATCTCTTGCATCTATCGCTGCGGCGGCGGCGGAG
TTTGGCCGTAGGTGGCGCCCTCTTCCTCCCATGCGTGTGACCCCGAAGCCCCTCATCGGCTGAAGCAGGG
CTAGGTCGGCGACAACGCGCTCGGCTAATATGGCCTGCTGCACCTGCGTGAGGGTAGACTGGAAGTCATC
CATGTCCACAAAGCGGTGGTATGCGCCCGTGTTGATGGTGTAAGTGCAGTTGGCCATAACGGACCAGTTA
ACGGTCTGGTGACCCGGCTGCGAGAGCTCGGTGTACCTGAGACGCGAGTAAGCCCTCGAGTCAAATACGT
AGTCGTTGCAAGTCCGCACCAGGTACTGGTATCCCACCAAAAAGTGCGGCGGCGGCTGGCGGTAGAGGGG
CCAGCGTAGGGTGGCCGGGGCTCCGGGGGCGAGATCTTCCAACATAAGGCGATGATATCCGTAGATGTAC
CTGGACATCCAGGTGATGCCGGCGGCGGTGGTGGAGGCGCGCGGAAAGTCGCGGACGCGGTTCCAGATGT
TGCGCAGCGGCAAAAAGTGCTCCATGGTCGGGACGCTCTGGCCGGTCAGGCGCGCGCAATCGTTGACGCT
CTAGACCGTGCAAAAGGAGAGCCTGTAAGCGGGCACTCTTCCGTGGTCTGGTGGATAAATTCGCAAGGGT
ATCATGGCGGACGACCGGGGTTCGAGCCCCGTATCCGGCCGTCCGCCGTGATCCATGCGGTTACCGCCCG
CGTGTCGAACCCAGGTGTGCGACGTCAGACAACGGGGGAGTGCTCCTTTTGGCTTCCTTCCAGGCGCGGC
GGCTGCTGCGCTAGCTTTTTTGGCCACTGGCCGCGCGCAGCGTAAGCGGTTAGGCTGGAAAGCGAAAGCA
TTAAGTGGCTCGCTCCCTGTAGCCGGAGGGTTATTTTCCAAGGGTTGAGTCGCGGGACCCCCGGTTCGAG
TCTCGGACCGGCCGGACTGCGGCGAACGGGGGTTTGCCTCCCCGTCATGCAAGACCCCGCTTGCAAATTC
CTCCGGAAACAGGGACGAGCCCCTTTTTTGCTTTTCCCAGATGCATCCGGTGCTGCGGCAGATGCGCCCC
CCTCCTCAGCAGCGGCAAGAGCAAGAGCAGCGGCAGACATGCAGGGCACCCTCCCCTCCTCCTACCGCGT
CAGGAGGGGCGACATCCGCGGTTGACGCGGCAGCAGATGGTGATTACGAACCCCCGCGGCGCCGGGCCCG
GCACTACCTGGACTTGGAGGAGGGCGAGGGCCTGGCGCGGCTAGGAGCGCCCTCTCCTGAGCGGTACCCA
AGGGTGCAGCTGAAGCGTGATACGCGTGAGGCGTACGTGCCGCGGCAGAACCTGTTTCGCGACCGCGAGG
GAGAGGAGCCCGAGGAGATGCGGGATCGAAAGTTCCACGCAGGGCGCGAGCTGCGGCATGGCCTGAATCG
CGAGCGGTTGCTGCGCGAGGAGGACTTTGAGCCCGACGCGCGAACCGGGATTAGTCCCGCGCGCGCACAC
GTGGCGGCCGCCGACCTGGTAACCGCATACGAGCAGACGGTGAACCAGGAGATTAACTTTCAAAAAAGCT
TTAACAACCACGTGCGTACGCTTGTGGCGCGCGAGGAGGTGGCTATAGGACTGATGCATCTGTGGGACTT
TGTAAGCGCGCTGGAGCAAAACCCAAATAGCAAGCCGCTCATGGCGCAGCTGTTCCTTATAGTGCAGCAC
AGCAGGGACAACGAGGCATTCAGGGATGCGCTGCTAAACATAGTAGAGCCCGAGGGCCGCTGGCTGCTCG
ATTTGATAAACATCCTGCAGAGCATAGTGGTGCAGGAGCGCAGCTTGAGCCTGGCTGACAAGGTGGCCGC
CATCAACTATTCCATGCTTAGCCTGGGCAAGTTTTACGCCCGCAAGATATACCATACCCCTTACGTTCCC
ATAGACAAGGAGGTAAAGATCGAGGGGTTCTACATGCGCATGGCGCTGAAGGTGCTTACCTTGAGCGACG
ACCTGGGCGTTTATCGCAACGAGCGCATCCACAAGGCCGTGAGCGTGAGCCGGCGGCGCGAGCTCAGCGA
CCGCGAGCTGATGCACAGCCTGCAAAGGGCCCTGGCTGGCACGGGCAGCGGCGATAGAGAGGCCGAGTCC
TACTTTGACGCGGGCGCTGACCTGCGCTGGGCCCCAAGCCGACGCGCCCTGGAGGCAGCTGGGGCCGGAC
CTGGGCTGGCGGTGGCACCCGCGCGCGCTGGCAACGTCGGCGGCGTGGAGGAATATGACGAGGACGATGA
GTACGAGCCAGAGGACGGCGAGTACTAAGCGGTGATGTTTCTGATCAGATGATGCAAGACGCAACGGACC
CGGCGGTGCGGGCGGCGCTGCAGAGCCAGCCGTCCGGCCTTAACTCCACGGACGACTGGCGCCAGGTCAT
GGACCGCATCATGTCGCTGACTGCGCGCAATCCTGACGCGTTCCGGCAGCAGCCGCAGGCCAACCGGCTC
TCCGCAATTCTGGAAGCGGTGGTCCCGGCGCGCGCAAACCCCACGCACGAGAAGGTGCTGGCGATCGTAA
ACGCGCTGGCCGAAAACAGGGCCATCCGGCCCGACGAGGCCGGCCTGGTCTACGACGCGCTGCTTCAGCG
CGTGGCTCGTTACAACAGCGGCAACGTGCAGACCAACCTGGACCGGCTGGTGGGGATGTGCGCGAGGCC

Table 10 (continued) Nucleotide sequence of pAd/PL-DEST™ (SEQ ID NO: 87).

GTGGCGCAGCGTGAGCGCGCGCAGCAGCAGGGCAACCTGGGCTCCATGGTTGCACTAAACGCCTTCCTGA
GTACACAGCCCGCCAACGTGCCGCGGGGACAGGAGGACTACACCAACTTTGTGAGCGCACTGCGGCTAAT
GGTGACTGAGACACCGCAAAGTGAGGTGTACCAGTCTGGGCCAGACTATTTTTTCCAGACCAGTAGACAA
GGCCTGCAGACCGTAAACCTGAGCCAGGCTTTCAAAAACTTGCAGGGGCTGTGGGGGGTGCGGGCTCCCA
CAGGCGACCGCGCGACCGTGTCTAGCTTGCTGACGCCCAACTCGCGCCTGTTGCTGCTGCTAATAGCGCC
CTTCACGGACAGTGGCAGCGTGTCCCGGGACACATACCTAGGTCACTTGCTGACACTGTACCGCGAGGCC
ATAGGTCAGGCGCATGTGGACGAGCATACTTTCCAGGAGATTACAAGTGTCAGCCGCGCGCTGGGGCAGG
AGGACACGGGCAGCCTGGAGGCAACCCTAAACTACCTGCTGACCAACCGGCGGCAGAAGATCCCCTCGTT
GCACAGTTTAAACAGCGAGGAGGAGCGCATTTTGCGCTACGTGCAGCAGAGCGTGAGCCTTAACCTGATG
CGCGACGGGGTAACGCCCAGCGTGGCGCTGGACATGACCGCGCGCAACATGGAACCGGGCATGTATGCCT
CAAACCGGCCGTTTATCAACCGCCTAATGGACTACTTGCATCGCGCGGCCGCCGTGAACCCCGAGTATTT
CACCAATGCCATCTTGAACCCGCACTGGCTACCGCCCCCTGGTTTCTACACCGGGGGATTCGAGGTGCCC
GAGGGTAACGATGGATTCCTCTGGGACGACATAGACGACAGCGTGTTTTCCCCGCAACCGCAGACCCTGC
TAGAGTTGCAACAGCGCGAGCAGGCAGAGGCGGCGCTGCGAAAGGAAAGCTTCCGCAGGCCAAGCAGCTT
GTCCGATCTAGGCGCTGCGGCCCCGCGGTCAGATGCTAGTAGCCCATTTCCAAGCTTGATAGGGTCTCTT
ACCAGCACTCGCACCACCCGCCCGCGCCTGCTGGGCGAGGAGGAGTACCTAAACAACTCGCTGCTGCAGC
CGCAGCGCGAAAAAAACCTGCCTCCGGCATTTCCCAACAACGGGATAGAGAGCCTAGTGGACAAGATGAG
TAGATGGAAGACGTACGCGCAGGAGCACAGGGACGTGCCAGGCCCGCGCCCGCCCACCCGTCGTCAAAGG
CACGACCGTCAGCGGGGTCTGGTGTGGGAGGACGATGACTCGGCAGACGACAGCAGCGTCCTGGATTTGG
GAGGGAGTGGCAACCCGTTTGCGCACCTTCGCCCCAGGCTGGGGAGAATGTTTTAAAAAAAAAAAAGCAT
GATGCAAAATAAAAAACTCACCAAGGCCATGGCACCGAGCGTTGGTTTTCTTGTATTCCCCTTAGTATGC
GGCGCGCGGCGATGTATGAGGAAGGTCCTCCTCCCTCCTACGAGAGTGTGGTGAGCGCGGCGCCAGTGGC
GGCGGCGCTGGGTTCTCCCTTCGATGCTCCCCTGGACCCGCCGTTTGTGCCTCCGCGGTACCTGCGGCCT
ACCGGGGGGAGAAACAGCATCCGTTACTCTGAGTTGGCACCCCTATTCGACACCACCCGTGTGTACCTGG
TGGACAACAAGTCAACGGATGTGGCATCCCTGAACTACCAGAACGACCACAGCAACTTTCTGACCACGGT
CATTCAAAACAATGACTACAGCCCGGGGGAGGCAAGCACACAGACCATCAATCTTGACGACCGGTCGCAC
TGGGGCGGCGACCTGAAAACCATCCTGCATACCAACATGCCAAATGTGAACGAGTTCATGTTTACCAATA
AGTTTAAGGCGCGGGTGATGGTGTCGCGCTTGCCTACTAAGGACAATCAGGTGGAGCTGAAATACGAGTG
GGTGGAGTTCACGCTGCCCGAGGGCAACTACTCCGAGACCATGACCATAGACCTTATGAACAACGCGATC
GTGGAGCACTACTTGAAAGTGGGCAGACAGAACGGGGTTCTGGAAAGCGACATCGGGGTAAAGTTTGACA
CCCGCAACTTCAGACTGGGGTTTGACCCCGTCACTGGTCTTGTCATGCCTGGGGTATATACAAACGAAGC
CTTCCATCCAGACATCATTTTGCTGCCAGGATGCGGGGTGGACTTCACCCACAGCCGCCTGAGCAACTTG
TTGGGCATCCGCAAGCGGCAACCCTTCCAGGAGGGCTTTAGGATCACCTACGATGATCTGGAGGGTGGTA
ACATTCCCGCACTGTTGGATGTGGACGCCTACCAGGCGAGCTTGAAAGATGACACCGAACAGGGCGGGGG
TGGCGCAGGCGGCAGCAACAGCAGTGGCAGCGGCGCGGAAGAGAACTCCAACGCGGCAGCCGCGGCAATG
CAGCCGGTGGAGGACATGAACGATCATGCCATTCGCGGCGACACCTTTGCCACACGGGCTGAGGAGAAGC
GCGCTGAGGCCGAAGCAGCGGCCGAAGCTGCCGCCCCCGCTGCGCAACCCGAGGTCGAGAAGCCTCAGAA
GAAACCGGTGATCAAACCCCTGACAGAGGACAGCAAGAAACGCAGTTACAACCTAATAAGCAATGACAGC
ACCTTCACCCAGTACCGCAGCTGGTACCTTGCATACAACTACGGCGACCCTCAGACCGGAATCCGCTCAT
GGACCCTGCTTTGCACTCCTGACGTAACCTGCGGCTCGGAGCAGGTCTACTGGTCGTTGCCAGACATGAT
GCAAGACCCCGTGACCTTCCGCTCCACGCGCCAGATCAGCAACTTTCCGGTGGTGGGCGCCGAGCTGTTG
CCCGTGCACTCCAAGAGCTTCTACAACGACCAGGCCGTCTACTCCCAACTCATCCGCCAGTTTACCTCTC
TGACCCACGTGTTCAATCGCTTTCCCGAGAACCAGATTTTGGCGCGCCCGCCAGCCCCCACCATCACCAC
CGTCAGTGAAAACGTTCCTGCTCTCACAGATCACGGGACGCTACCGCTGCGCAACAGCATCGGAGGAGTC
CAGCGAGTGACCATTACTGACGCCAGACGCCGCACCTGCCCCTACGTTTACAAGGCCCTGGGCATAGTCT
CGCCGCGCGTCCTATCGAGCCGCACTTTTTGAGCAAGCATGTCCATCCTTATATCGCCCAGCAATAACAC
AGGCTGGGGCCTGCGCTTCCCAAGCAAGATGTTTGGCGGGGCCAAGAAGCGCTCCGACCAACACCCAGTG
CGCGTGCGCGGGCACTACCGCGCGCCCTGGGGCGCGCACAAACGCGGCCGCACTGGGCGCACCACCGTCG
ATGACGCCATCGACGCGGTGGTGGAGGAGGCGCGCAACTACACGCCCACGCCGCCACCAGTGTCCACAGT
GGACGCGGCCATTCAGACCGTGGTGCGCGGAGCCCGGCGCTATGCTAAAATGAAGAGACGGCGGAGGCGC
GTAGCACGTCGCCACCGCCGCCGACCCGGCACTGCCGCCCAACGCGCGGCGGCGGCCCTGCTTAACCGCG
CACGTCGCACCGGCCGACGGGCGGCCATGCGGGCCGCTCGAAGGCTGGCCGCGGGTATTGTCACTGTGCC
CCCCAGGTCCAGGCGACGAGCGGCCGCCGCAGCAGCCGCGGCCATTAGTGCTATGACTCAGGGTCGCAGG
GGCAACGTGTATTGGGTGCGCGACTCGGTTAGCGGCCTGCGCGTGCCCGTGCGCACCCGCCCCCCGCGCA
ACTAGATTGCAAGAAAAAACTACTTAGACTCGTACTGTTGTATGTATCCAGCGGCGGCGGCGCGCAACGA

Table 10 (continued) Nucleotide sequence of pAd/PL-DEST™ (SEQ ID NO: 87).

AGCTATGTCCAAGCGCAAAATCAAAGAAGAGATGCTCCAGGTCATCGCGCCGGAGATCTATGGCCCCCCG
AAGAAGGAAGAGCAGGATTACAAGCCCCGAAAGCTAAAGCGGGTCAAAAAGAAAAAGAAAGATGATGATG
ATGAACTTGACGACGAGGTGGAACTGCTGCACGCTACCGCGCCCAGGCGACGGGTACAGTGGAAAGGTCG
ACGCGTAAAACGTGTTTTGCGACCCGGCACCACCGTAGTCTTTACGCCCGGTGAGCGCTCCACCCGCACC
TACAAGCGCGTGTATGATGAGGTGTACGGCGACGAGGACCTGCTTGAGCAGGCCAACGAGCGCCTCGGGG
AGTTTGCCTACGGAAAGCGGCATAAGGACATGCTGGCGTTGCCGCTGGACGAGGGCAACCCAACACCTAG
CCTAAAGCCCGTAACACTGCAGCAGGTGCTGCCCGCGCTTGCACCGTCCGAAGAAAAGCGCGGCCTAAAG
CGCGAGTCTGGTGACTTGGCACCCACCGTGCAGCTGATGGTACCCAAGCGCCAGCGACTGGAAGATGTCT
TGGAAAAAATGACCGTGGAACCTGGGCTGGAGCCCGAGGTCCGCGTGCGGCCAATCAAGCAGGTGGCGCC
GGGACTGGGCGTGCAGACCGTGGACGTTCAGATACCCACTACCAGTAGCACCAGTATTGCCACCGCCACA
GAGGGCATGGAGACACAAACGTCCCCGGTTGCCTCAGCGGTGGCGGATGCCGCGGTGCAGGCGGTCGCTG
CGGCCGCGTCCAAGACCTCTACGGAGGTGCAAACGGACCCGTGGATGTTTCGCGTTTCAGCCCCCCGGCG
CCCGCGCGGTTCGAGGAAGTACGGCGCCGCCAGCGCGCTACTGCCCGAATATGCCCTACATCCTTCCATT
GCGCCTACCCCCGGCTATCGTGGCTACACCTACCGCCCCAGAAGACGAGCAACTACCCGACGCCGAACCA
CCACTGGAACCCGCCGCCGCCGTCGCCGTCGCCAGCCCGTGCTGGCCCCGATTTCCGTGCGCAGGGTGGC
TCGCGAAGGAGGCAGGACCCTGGTGCTGCCAACAGCGCGCTACCACCCCAGCATCGTTTAAAAGCCGGTC
TTTGTGGTTCTTGCAGATATGGCCCTCACCTGCCGCCTCCGTTTCCCGGTGCCGGGATTCCGAGGAAGAA
TGCACCGTAGGAGGGGCATGGCCGGCCACGGCCTGACGGGCGGCATGCGTCGTGCGCACCACCGGCGGCG
GCGCGCGTCGCACCGTCGCATGCGCGGCGGTATCCTGCCCCTCCTTATTCCACTGATCGCCGCGGCGATT
GGCGCCGTGCCCGGAATTGCATCCGTGGCCTTGCAGGCGCAGAGACACTGATTAAAAACAAGTTGCATGT
GGAAAAATCAAAATAAAAAGTCTGGACTCTCACGCTCGCTTGGTCCTGTAACTATTTTGTAGAATGGAAG
ACATCAACTTTGCGTCTCTGGCCCCGCGACACGGCTCGCGCCCGTTCATGGGAAACTGGCAAGATATCGG
CACCAGCAATATGAGCGGTGGCGCCTTCAGCTGGGGCTCGCTGTGGAGCGGCATTAAAAATTTCGGTTCC
ACCGTTAAGAACTATGGCAGCAAGGCCTGGAACAGCAGCACAGGCCAGATGCTGAGGGATAAGTTGAAAG
AGCAAAATTTCCAACAAAAGGTGGTAGATGGCCTGGCCTCTGGCATTAGCGGGGTGGTGGACCTGGCCAA
CCAGGCAGTGCAAAATAAGATTAACAGTAAGCTTGATCCCCGCCCTCCCGTAGAGGAGCCTCCACCGGCC
GTGGAGACAGTGTCTCCAGAGGGGCGTGGCGAAAAGCGTCCGCGCCCCGACAGGGAAGAAACTCTGGTGA
CGCAAATAGACGAGCCTCCCTCGTACGAGGAGGCACTAAAGCAAGGCCTGCCCACCACCCGTCCCATCGC
GCCCATGGCTACCGGAGTGCTGGGCCAGCACACACCCGTAACGCTGGACCTGCCTCCCCCCGCCGACACC
CAGCAGAAACCTGTGCTGCCAGGCCCGACCGCCGTTGTTGTAACCCGTCCTAGCCGCGCGTCCCTGCGCC
GCGCCGCCAGCGGTCCGCGATCGTTGCGGCCCGTAGCCAGTGGCAACTGGCAAAGCACACTGAACAGCAT
CGTGGGTCTGGGGGTGCAATCCCTGAAGCGCCGACGATGCTTCTGAATAGCTAACGTGTCGTATGTGTGT
CATGTATGCGTCCATGTCGCCGCCAGAGGAGCTGCTGAGCCGCCGCGCGCCCGCTTTCCAAGATGGCTAC
CCCTTCGATGATGCCGCAGTGGTCTTACATGCACATCTCGGGCCAGGACGCCTCGGAGTACCTGAGCCCC
GGGCTGGTGCAGTTTGCCCGCGCCACCGAGACGTACTTCAGCCTGAATAACAAGTTTAGAAACCCCACGG
TGGCGCCTACGCACGACGTGACCACAGACCGGTCCCAGCGTTTGACGCTGCGGTTCATCCCTGTGGACCG
TGAGGATACTGCGTACTCGTACAAGGCGCGGTTCACCCTAGCTGTGGGTGATAACCGTGTGCTGGACATG
GCTTCCACGTACTTTGACATCCGCGGCGTGCTGGACAGGGGCCCTACTTTTAAGCCCTACTCTGGCACTG
CCTACAACGCCCTGGCTCCCAAGGGTGCCCCAAATCCTTGCGAATGGGATGAAGCTGCTACTGCTCTTGA
AATAAACCTAGAAGAAGAGGACGATGACAACGAAGACGAAGTAGACGAGCAAGCTGAGCAGCAAAAAACT
CACGTATTTGGGCAGGCGCCTTATTCTGGTATAAATATTACAAAGGAGGGTATTCAAATAGGTGTCGAAG
GTCAAACACCTAAATATGCCGATAAAACATTTCAACCTGAACCTCAAATAGGAGAATCTCAGTGGTACGA
AACTGAAATTAATCATGCAGCTGGGAGAGTCCTTAAAAAGACTACCCCAATGAAACCATGTTACGGTTCA
TATGCAAAACCCACAAATGAAAATGGAGGGCAAGGCATTCTTGTAAAGCAACAAAATGGAAAGCTAGAAA
GTCAAGTGGAAATGCAATTTTTCTCAACTACTGAGGCGACCGCAGGCAATGGTGATAACTTGACTCCTAA
AGTGGTATTGTACAGTGAAGATGTAGATATAGAAACCCCAGACACTCATATTTCTTACATGCCCACTATT
AAGGAAGGTAACTCACGAGAACTAATGGGCCAACAATCTATGCCCAACAGGCCTAATTACATTGCTTTTA
GGGACAATTTTATTGGTCTAATGTATTACAACAGCACGGGTAATATGGGTGTTCTGGCGGGCCAAGCATC
GCAGTTGAATGCTGTTGTAGATTTGCAAGACAGAAACACAGAGCTTTCATACCAGCTTTTGCTTGATTCC
ATTGGTGATAGAACCAGGTACTTTTCTATGTGGAATCAGGCTGTTGACAGCTATGATCCAGATGTTAGAA
TTATTGAAAATCATGGAACTGAAGATGAACTTCCAAATTACTGCTTTCCACTGGGAGGTGTGATTAATAC
AGAGACTCTTACCAAGGTAAAACCTAAAACAGGTCAGGAAAATGGATGGGAAAAAGATGCTACAGAATTT
TCAGATAAAAATGAAATAAGAGTTGGAAATAATTTTGCCATGGAAATCAATCTAAATGCCAACCTGTGGA
GAAATTTCCTGTACTCCAACATAGCGCTGTATTTGCCCGACAAGCTAAAGTACAGTCCTTCCAACGTAAA
AATTTCTGATAACCCAAACACCTACGACTACATGAACAAGCGAGTGGTGGCTCCCGGGTTAGTGGACTGC

Table 10 (continued) Nucleotide sequence of pAd/PL-DEST™ (SEQ ID NO: 87).

TACATTAACCTTGGAGCACGCTGGTCCCTTGACTATATGGACAACGTCAACCCATTTAACCACCACCGCA
ATGCTGGCCTGCGCTACCGCTCAATGTTGCTGGCAATGGTCGCTATGTGCCCTTCCACATCCAGGTGCC
TCAGAAGTTCTTTGCCATTAAAAACCTCCTTCTCCTGCCGGGCTCATACACCTACGAGTGGAACTTCAGG
AAGGATGTTAACATGGTTCTGCAGAGCTCCCTAGGAAATGACCTAAGGGTTGACGGAGCCAGCATTAAGT
TTGATAGCATTTGCCTTTACGCCACCTTCTTCCCCATGGCCCACAACACCGCCTCCACGCTTGAGGCCAT
GCTTAGAAACGACACCAACGACCAGTCCTTTAACGACTATCTCTCCGCCGCCAACATGCTCTACCCTATA
CCCGCCAACGCTACCAACGTGCCCATATCCATCCCCTCCCGCAACTGGGCGGCTTTCCGCGGCTGGGCCT
TCACGCGCCTTAAGACTAAGGAAACCCCATCACTGGGCTCGGGCTACGACCCTTATTACACCTACTCTGG
CTCTATACCCTACCTAGATGGAACCTTTTACCTCAACCACACCTTTAAGAAGGTGGCCATTACCTTTGAC
TCTTCTGTCAGCTGGCCTGGCAATGACCGCCTGCTTACCCCCAACGAGTTTGAAATTAAGCGCTCAGTTG
ACGGGGAGGGTTACAACGTTGCCCAGTGTAACATGACCAAAGACTGGTTCCTGGTACAAATGCTAGCTAA
CTACAACATTGGCTACCAGGGCTTCTATATCCCAGAGAGCTACAAGGACCGCATGTACTCCTTCTTTAGA
AACTTCCAGCCCATGAGCCGTCAGGTGGTGGATGATACTAAATACAAGGACTACCAACAGGTGGGCATCC
TACACCAACACAACAACTCTGGATTTGTTGGCTACCTTGCCCCCACCATGCGCGAAGGACAGGCCTACCC
TGCTAACTTCCCCTATCCGCTTATAGGCAAGACCGCAGTTGACAGCATTACCCAGAAAAAGTTTCTTTGC
GATCGCACCCTTTGGCGCATCCCATTCTCCAGTAACTTTATGTCCATGGGCGCACTCACAGACCTGGGCC
AAAACCTTCTCTACGCCAACTCCGCCCACGCGCTAGACATGACTTTTGAGGTGGATCCCATGGACGAGCC
CACCCTTCTTTATGTTTTGTTTGAAGTCTTTGACGTGGTCCGTGTGCACCGGCCGCACCGCGGCGTCATC
GAAACCGTGTACCTGCGCACGCCCTTCTCGGCCGGCAACGCCACAACATAAAGAAGCAAGCAACATCAAC
AACAGCTGCCGCCATGGGCTCCAGTGAGCAGGAACTGAAAGCCATTGTCAAAGATCTTGGTTGTGGGCCA
TATTTTTTGGGCACCTATGACAAGCGCTTTCCAGGCTTTGTTTCTCCACACAAGCTCGCCTGCGCCATAG
TCAATACGGCCGGTCGCGAGACTGGGGGCGTACACTGGATGGCCTTTGCCTGGAACCCGCACTCAAAAAC
ATGCTACCTCTTTGAGCCCTTTGGCTTTTCTGACCAGCGACTCAAGCAGGTTTACCAGTTTGAGTACGAG
TCACTCCTGCGCCGTAGCGCCATTGCTTCTTCCCCCGACCGCTGTATAACGCTGGAAAAGTCCACCCAAA
GCGTACAGGGGCCCAACTCGGCCGCCTGTGGACTATTCTGCTGCATGTTTCTCCACGCCTTTGCCAACTG
GCCCCAAACTCCCATGGATCACAACCCCACCATGAACCTTATTACCGGGGTACCCAACTCCATGCTCAAC
AGTCCCCAGGTACAGCCCACCCTGCGTCGCAACCAGGAACAGCTCTACAGCTTCCTGGAGCGCCACTCGC
CCTACTTCCGCAGCCACAGTGCGCAGATTAGGAGCGCCACTTCTTTTTGTCACTTGAAAAACATGTAAAA
ATAATGTACTAGAGACACTTTCAATAAAGGCAAATGCTTTTATTTGTACACTCTCGGGTGATTATTTACC
CCCACCCTTGCCGTCTGCGCCGTTTAAAAATCAAAGGGGTTCTGCCGCGCATCGCTATGCGCCACTGGCA
GGGACACGTTGCGATACTGGTGTTTAGTGCTCCACTTAAACTCAGGCACAACCATCCGCGGCAGCTCGGT
GAAGTTTTCACTCCACAGGCTGCGCACCATCACCAACGCGTTTAGCAGGTCGGGCGCCGATATCTTGAAG
TCGCAGTTGGGGCCTCCGCCCTGCGCGCGCGAGTTGCGATACACAGGGTTGCAGCACTGGAACACTATCA
GCGCCGGGTGGTGCACGCTGGCCAGCACGCTCTTGTCGGAGATCAGATCCGCGTCCAGGTCCTCCGCGTT
GCTCAGGGCGAACGGAGTCAACTTTGGTAGCTGCCTTCCCAAAAAGGGCGCGTGCCCAGGCTTTGAGTTG
CACTCGCACCGTAGTGGCATCAAAAGGTGACCGTGCCCGGTCTGGGCGTTAGGATACAGCGCCTGCATAA
AAGCCTTGATCTGCTTAAAAGCCACCTGAGCCTTTGCGCCTTCAGAGAAGAACATGCCGCAAGACTTGCC
GGAAAACTGATTGGCCGGACAGGCCGCGTCGTGCACGCAGCACCTTGCGTCGGTGTTGGAGATCTGCACC
ACATTTCGGCCCCACCGGTTCTTCACGATCTTGGCCTTGCTAGACTGCTCCTTCAGCGCGCGCTGCCCGT
TTTCGCTCGTCACATCCATTTCAATCACGTGCTCCTTATTTATCATAATGCTTCCGTGTAGACACTTAAG
CTCGCCTTCGATCTCAGCGCAGCGGTGCAGCCACAACGCGCAGCCCGTGGGCTCGTGATGCTTGTAGGTC
ACCTCTGCAAACGACTGCAGGTACGCCTGCAGGAATCGCCCCATCATCGTCACAAAGGTCTTGTTGCTGG
TGAAGGTCAGCTGCAACCCGCGGTGCTCCTCGTTCAGCCAGGTCTTGCATACGGCCGCCAGAGCTTCCAC
TTGGTCAGGCAGTAGTTTGAAGTTCGCCTTTAGATCGTTATCCACGTGGTACTTGTCCATCAGCGCGCGC
GCAGCCTCCATGCCCTTCTCCCACGCAGACACGATCGGCACACTCAGCGGGTTCATCACCGTAATTTCAC
TTTCCGCTTCGCTGGGCTCTTCCTCTTCCTCTTGCGTCCGCATACCACGCGCCACTGGGTCGTCTTCATT
CAGCCGCCGCACTGTGCGCTTACCTCCTTTGCCATGCTTGATTAGCACCGGTGGGTTGCTGAAACCCACC
ATTTGTAGCGCCACATCTTCTCTTTCTTCCTCGCTGTCCACGATTACCTCTGGTGATGGCGGGCGCTCGG
GCTTGGGAGAAGGGCGCTTCTTTTTCTTCTTGGGCGCAATGGCCAAATCCGCCGCCGAGGTCGATGGCCG
CGGGCTGGGTGTGCGCGGCACCAGCGCGTCTTGTGATGAGTCTTCCTCGTCCTCGGACTCGATACGCCGC
CTCATCCGCTTTTTTGGGGGCGCCCGGGGAGGCGGCGGCGACGGGGACGGGGACGACACGTCCTCCATGG
TTGGGGGACGTCGCGCCGCACCGCGTCCGCGCTCGGGGGTGGTTTCGCGCTGCTCCTCTTCCCGACTGGC
CATTTCCTTCTCCTATAGGCAGAAAAAGATCATGGAGTCAGTCGAGAAGAAGGACAGCCTAACCGCCCCC
TCTGAGTTCGCCACCACCGCCTCCACCGATGCCGCCAACGCGCCTACCACCTTCCCCGTCGAGGCACCCC
CGCTTGAGGAGGAGGAAGTGATTATCGAGCAGGACCCAGGTTTTGTAAGCGAAGACGACGAGGACCGCTC

Table 10 (continued) Nucleotide sequence of pAd/PL-DEST™ (SEQ ID NO: 87).

AGTACCAACAGAGGATAAAAAGCAAGACCAGGACAACGCAGAGGCAAACGAGGAACAAGTCGGGCGGGGG
GACGAAAGGCATGGCGACTACCTAGATGTGGGAGACGACGTGCTGTTGAAGCATCTGCAGCGCCAGTGCG
CCATTATCTGCGACGCGTTGCAAGAGCGCAGCGATGTGCCCCTCGCCATAGCGGATGTCAGCCTTGCCTA
CGAACGCCACCTATTCTCACCGCGCGTACCCCCCAAACGCCAAGAAAACGGCACATGCGAGCCCAACCCG
CGCCTCAACTTCTACCCCGTATTTGCCGTGCCAGAGGTGCTTGCCACCTATCACATCTTTTTCCAAAACT
GCAAGATACCCCTATCCTGCCGTGCCAACCGCAGCCGAGCGGACAAGCAGCTGGCCTTGCGGCAGGGCGC
TGTCATACCTGATATCGCCTCGCTCAACGAAGTGCCAAAAATCTTTGAGGGTCTTGGACGCGACGAGAAG
CGCGCGGCAAACGCTCTGCAACAGGAAAACAGCGAAAATGAAAGTCACTCTGGAGTGTTGGTGGAACTCG
AGGGTGACAACGCGCGCCTAGCCGTACTAAAACGCAGCATCGAGGTCACCCACTTTGCCTACCCGGCACT
TAACCTACCCCCCAAGGTCATGAGCACAGTCATGAGTGAGCTGATCGTGCGCCGTGCGCAGCCCCTGGAG
AGGGATGCAAATTTGCAAGAACAAACAGAGGAGGGCCTACCCGCAGTTGGCGACGAGCAGCTAGCGCGCT
GGCTTCAAACGCGCGAGCCTGCCGACTTGGAGGAGCGACGCAAACTAATGATGGCCGCAGTGCTCGTTAC
CGTGGAGCTTGAGTGCATGCAGCGGTTCTTTGCTGACCCGGAGATGCAGCGCAAGCTAGAGGAAACATTG
CACTACACCTTTCGACAGGGCTACGTACGCCAGGCCTGCAAGATCTCCAACGTGGAGCTCTGCAACCTGG
TCTCCTACCTTGGAATTTTGCACGAAAACCGCCTTGGGCAAAACGTGCTTCATTCCACGCTCAAGGGCGA
GGCGCGCCGCGACTACGTCCGCGACTGCGTTTACTTATTTCTATGCTACACCTGGCAGACGGCCATGGGC
GTTTGGCAGCAGTGCTTGGAGGAGTGCAACCTCAAGGAGCTGCAGAAACTGCTAAAGCAAAACTTGAAGG
ACCTATGGACGGCCTTCAACGAGCGCTCCGTGGCCGCGCACCTGGCGGACATCATTTTCCCCGAACGCCT
GCTTAAAACCCTGCAACAGGGTCTGCCAGACTTCACCAGTCAAAGCATGTTGCAGAACTTTAGGAACTTT
ATCCTAGAGCGCTCAGGAATCTTGCCCGCCACCTGCTGTGCACTTCCTAGCGACTTTGTGCCCATTAAGT
ACCGCGAATGCCCTCCGCCGCTTTGGGGCCACTGCTACCTTCTGCAGCTAGCCAACTACCTTGCCTACCA
CTCTGACATAATGGAAGACGTGAGCGGTGACGGTCTACTGGAGTGTCACTGTCGCTGCAACCTATGCACC
CCGCACCGCTCCCTGGTTTGCAATTCGCAGCTGCTTAACGAAAGTCAAATTATCGGTACCTTTGAGCTGC
AGGGTCCCTCGCCTGACGAAAAGTCCGCGGCTCCGGGGTTGAAACTCACTCCGGGGCTGTGGACGTCGGC
TTACCTTCGCAAATTTGTACCTGAGGACTACCACGCCCACGAGATTAGGTTCTACGAAGACCAATCCCGC
CCGCCAAATGCGGAGCTTACCGCCTGCGTCATTACCCAGGGCCACATTCTTGGCCAATTGCAAGCCATCA
ACAAAGCCCGCCAAGAGTTTCTGCTACGAAAGGGACGGGGGGTTTACTTGGACCCCCAGTCCGGCGAGGA
GCTCAACCCAATCCCCCCGCCGCCGCAGCCCTATCAGCAGCAGCCGCGGGCCCTTGCTTCCCAGGATGGC
ACCCAAAAAGAAGCTGCAGCTGCCGCCGCCACCCACGGACGAGGAGGAATACTGGGACAGTCAGGCAGAG
GAGGTTTTGGACGAGGAGGAGGAGGACATGATGGAAGACTGGGAGAGCCTAGACGAGGAAGCTTCCGAGG
TCGAAGAGGTGTCAGACGAAACACCGTCACCCTCGGTCGCATTCCCCTCGCCGGCGCCCCAGAAATCGGC
AACCGGTTCCAGCATGGCTACAACCTCCGCTCCTCAGGCGCCGCCGGCACTGCCCGTTCGCCGACCCAAC
CGTAGATGGGACACCACTGGAACCAGGGCCGGTAAGTCCAAGCAGCCGCCGCCGTTAGCCCAAGAGCAAC
AACAGCGCCAAGGCTACCGCTCATGGCGCGGGCACAAGAACGCCATAGTTGCTTGCTTGCAAGACTGTGG
GGGCAACATCTCCTTCGCCCGCCGCTTTCTTCTCTACCATCACGGCGTGGCCTTCCCCCGTAACATCCTG
CATTACTACCGTCATCTCTACAGCCCATACTGCACCGGCGGCAGCGGCAGCGGCAGCAACAGCAGCGGCC
ACACAGAAGCAAAGGCGACCGGATAGCAAGACTCTGACAAAGCCCAAGAAATCCACAGCGGCGGCAGCAG
CAGGAGGAGGAGCGCTGCGTCTGGCGCCCAACGAACCCGTATCGACCCGCGAGCTTAGAAACAGGATTTT
TCCCACTCTGTATGCTATATTTCAACAGAGCAGGGGCCAAGAACAAGAGCTGAAAATAAAAAACAGGTCT
CTGCGATCCCTCACCCGCAGCTGCCTGTATCACAAAAGCGAAGATCAGCTTCGGCGCACGCTGGAAGACG
CGGAGGCTCTCTTCAGTAAATACTGCGCGCTGACTCTTAAGGACTAGTTTCGCGCCCTTTCTCAAATTTA
AGCGCGAAAACTACGTCATCTCCAGCGGCCACACCCGGCGCCAGCACCTGTCGTCAGCGCCATTATGAGC
AAGGAAATTCCCACGCCCTACATGTGGAGTTACCAGCCACAAATGGGACTTGCGGCTGGAGCTGCCCAAG
ACTACTCAACCCGAATAAACTACATGAGCGCGGGACCCCACATGATATCCCGGGTCAACGGAATCCGCGC
CCACCGAAACCGAATTCTCTTGGAACAGGCGGCTATTACCACCACACCTCGTAATAACCTTAATCCCCGT
AGTTGGCCCGCTGCCCTGGTGTACCAGGAAAGTCCCGCTCCCACCACTGTGGTACTTCCCAGAGACGCCC
AGGCCGAAGTTCAGATGACTAACTCAGGGGCGCAGCTTGCGGGCGGCTTTCGTCACAGGGTGCGGTCGCC
CGGGCAGGGTATAACTCACCTGACAATCAGAGGGCGAGGTATTCAGCTCAACGACGAGTCGGTGAGCTCC
TCGCTTGGTCTCCGTCCGGACGGGACATTTCAGATCGGCGGCGCCGGCCGTCCTTCATTCACGCCTCGTC
AGGCAATCCTAACTCTGCAGACCTCGTCCTCTGAGCCGCGCTCTGGAGGCATTGGAACTCTGCAATTTAT
TGAGGAGTTTGTGCCATCGGTCTACTTTAACCCCTTCTCGGGACCTCCCGGCCACTATCCGGATCAATTT
ATTCCTAACTTTGACGCGGTAAAGGACTCGGCGGACGGCTACGACTGAATGTTAAGTGGAGAGGCAGAGC
AACTGCGCCTGAAACACCTGGTCCACTGTCGCCGCCACAAGTGCTTTGCCCGCGACTCCGGTGAGTTTTG
CTACTTTGAATTGCCCGAGGATCATATCGAGGGCCCGGCGCACGGCGTCCGGCTTACCGCCCAGGGAGAG
CTTGCCCGTAGCCTGATTCGGGAGTTTACCCAGCGCCCCCTGCTAGTTGAGCGGGACAGGGGACCCTGTG

Table 10 (continued) Nucleotide sequence of pAd/PL-DEST™ (SEQ ID NO: 87).

TTCTCACTGTGATTTGCAACTGTCCTAACCTTGGATTACATCAAGATCTTTGTTGCCATCTCTGTGCTGA
GTATAATAAATACAGAAATTAAAATATACTGGGGCTCCTATCGCCATCCTGTAAACGCCACCGTCTTCAC
CCGCCCAAGCAAACCAAGGCGAACCTTACCTGGTACTTTTAACATCTCTCCCTCTGTGATTTACAACAGT
TTCAACCCAGACGGAGTGAGTCTACGAGAGAACCTCTCCGAGCTCAGCTACTCCATCAGAAAAAACACCA
CCCTCCTTACCTGCCGGGAACGTACGAGTGCGTCACCGGCCGCTGCACCACACCTACCGCCTGACCGTAA
ACCAGACTTTTTCCGGACAGACCTCAATAACTCTGTTTACCAGAACAGGAGGTGAGCTTAGAAAACCCTT
AGGGTATTAGGCCAAAGGCGCAGCTACTGTGGGGTTTATGAACAATTCAAGCAACTCTACGGGCTATTCT
AATTCAGGTTTCTCTAGAAATGGACGGAATTATTACAGAGCAGCGCCTGCTAGAAAGACGCAGGGCAGCG
GCCGAGCAACAGCGCATGAATCAAGAGCTCCAAGACATGGTTAACTTGCACCAGTGCAAAAGGGGTATCT
TTTGTCTGGTAAAGCAGGCCAAAGTCACCTACGACAGTAATACCACCGGACACCGCCTTAGCTACAAGTT
GCCAACCAAGCGTCAGAAATTGGTGGTCATGGTGGGAGAAAAGCCCATTACCATAACTCAGCACTCGGTA
GAAACCGAAGGCTGCATTCACTCACCTTGTCAAGGACCTGAGGATCTCTGCACCCTTATTAAGACCCTGT
GCGGTCTCAAAGATCTTATTCCCTTTAACTAATAAAAAAAAATAATAAAGCATCACTTACTTAAAATCAG
TTAGCAAATTTCTGTCCAGTTTATTCAGCAGCACCTCCTTGCCCTCCTCCCAGCTCTGGTATTGCAGCTT
CCTCCTGGCTGCAAACTTTCTCCACAATCTAAATGGAATGTCAGTTTCCTCCTGTTCCTGTCCATCCGCA
CCCACTATCTTCATGTTGTTGCAGATGAAGCGCGCAAGACCGTCTGAAGATACCTTCAACCCCGTGTATC
CATATGACACGGAAACCGGTCCTCCAACTGTGCCTTTTCTTACTCCTCCCTTTGTATCCCCCAATGGGTT
TCAAGAGAGTCCCCCTGGGGTACTCTCTTTGCGCCTATCCGAACCTCTAGTTACCTCCAATGGCATGCTT
GCGCTCAAAATGGGCAACGGCCTCTCTCTGGACGAGGCCGGCAACCTTACCTCCCAAAATGTAACCACTG
TGAGCCCACCTCTCAAAAAAACCAAGTCAAACATAAACCTGGAAATATCTGCACCCCTCACAGTTACCTC
AGAAGCCCTAACTGTGGCTGCCGCCGCACCTCTAATGGTCGCGGGCAACACACTCACCATGCAATCACAG
GCCCCGCTAACCGTGCACGACTCCAAACTTAGCATTGCCACCCAAGGACCCCTCACAGTGTCAGAAGGAA
AGCTAGCCCTGCAAACATCAGGCCCCCTCACCACCACCGATAGCAGTACCCTTACTATCACTGCCTCACC
CCCTCTAACTACTGCCACTGGTAGCTTGGGCATTGACTTGAAAGAGCCCATTTATACACAAAATGGAAAA
CTAGGACTAAAGTACGGGGCTCCTTTGCATGTAACAGACGACCTAAACACTTTGACCGTAGCAACTGGTC
CAGGTGTGACTATTAATAATACTTCCTTGCAAACTAAAGTTACTGGAGCCTTGGGTTTTGATTCACAAGG
CAATATGCAACTTAATGTAGCAGGAGGACTAAGGATTGATTCTCAAAACAGACGCCTTATACTTGATGTT
AGTTATCCGTTTGATGCTCAAAACCAACTAAATCTAAGACTAGGACAGGGCCCTCTTTTTATAAACTCAG
CCCACAACTTGGATATTAACTACAACAAAGGCCTTTACTTGTTTACAGCTTCAAACAATTCCAAAAAGCT
TGAGGTTAACCTAAGCACTGCCAAGGGGTTGATGTTTGACGCTACAGCCATAGCCATTAATGCAGGAGAT
GGGCTTGAATTTGGTTCACCTAATGCACCAAACACAAATCCCCTCAAAACAAAAATTGGCCATGGCCTAG
AATTTGATTCAAACAAGGCTATGGTTCCTAAACTAGGAACTGGCCTTAGTTTTGACAGCACAGGTGCCAT
TACAGTAGGAAACAAAAATAATGATAAGCTAACTTTGTGGACCACACCAGCTCCATCTCCTAACTGTAGA
CTAAATGCAGAGAAAGATGCTAAACTCACTTTGGTCTTAACAAAATGTGGCAGTCAAATACTTGCTACAG
TTTCAGTTTTGGCTGTTAAAGGCAGTTTGGCTCCAATATCTGGAACAGTTCAAAGTGCTCATCTTATTAT
AAGATTTGACGAAAATGGAGTGCTACTAAACAATTCCTTCCTGGACCCAGAATATTGGAACTTTAGAAAT
GGAGATCTTACTGAAGGCACAGCCTATACAAACGCTGTTGGATTTATGCCTAACCTATCAGCTTATCCAA
AATCTCACGGTAAAACTGCCAAAAGTAACATTGTCAGTCAAGTTTACTTAAACGGAGACAAAACTAAACC
TGTAACACTAACCATTACACTAAACGGTACACAGGAAACAGGAGACACAACTCCAAGTGCATACTCTATG
TCATTTTCATGGGACTGGTCTGGCCACAACTACATTAATGAAATATTTGCCACATCCTCTTACACTTTTT
CATACATTGCCCAAGAATAAAGAATCGTTTGTGTTATGTTTCAACGTGTTTATTTTTCAATTGCAGAAAA
TTTCGAATCATTTTTCATTCAGTAGTATAGCCCCACCACCACATAGCTTATACAGATCACCGTACCTTAA
TCAAACTCACAGAACCCTAGTATTCAACCTGCCACCTCCCTCCCAACACACAGAGTACACAGTCCTTTCT
CCCCGGCTGGCCTTAAAAAGCATCATATCATGGGTAACAGACATATTCTTAGGTGTTATATTCCACACGG
TTTCCTGTCGAGCCAAACGCTCATCAGTGATATTAATAAACTCCCCGGGCAGCTCACTTAAGTTCATGTC
GCTGTCCAGCTGCTGAGCCACAGGCTGCTGTCCAACTTGCGGTTGCTTAACGGGCGGCGAAGGAGAAGTC
CACGCCTACATGGGGGTAGAGTCATAATCGTGCATCAGGATAGGGCGGTGGTGCTGCAGCAGCGCGCGAA
TAAACTGCTGCCGCCGCCGCTCCGTCCTGCAGGAATACAACATGGCAGTGGTCTCCTCAGCGATGATTCG
CACCGCCCGCAGCATAAGGCGCCTTGTCCTCCGGGCACAGCAGCGCACCCTGATCTCACTTAAATCAGCA
CAGTAACTGCAGCACAGCACCACAATATTGTTCAAAATCCCACAGTGCAAGGCGCTGTATCCAAAGCTCA
TGGCGGGGACCACAGAACCCACGTGGCCATCATACCACAAGCGCAGGTAGATTAAGTGGCGACCCCTCAT
AAACACGCTGGACATAAACATTACCTCTTTTGGCATGTTGTAATTCACCACCTCCCGGTACCATATAAAC
CTCTGATTAAACATGGCGCCATCCACCACCATCCTAAACCAGCTGGCCAAAACCTGCCCGCCGGCTATAC
ACTGCAGGGAACCGGGACTGGAACAATGACAGTGGAGAGCCCAGGACTCGTAACCATGGATCATCATGCT
CGTCATGATATCAATGTTGGCACAACACAGGCACACGTGCATACACTTCCTCAGGATTACAAGCTCCTCC

Table 10 (continued) Nucleotide sequence of pAd/PL-DEST™ (SEQ ID NO: 87).

CGCGTTAGAACCATATCCCAGGGAACAACCCATTCCTGAATCAGCGTAAATCCCACACTGCAGGGAAGAC
CTCGCACGTAACTCACGTTGTGCATTGTCAAAGTGTTACATTCGGGCAGCAGCGGATGATCCTCCAGTAT
GGTAGCGCGGGTTTCTGTCTCAAAAGGAGGTAGACGATCCCTACTGTACGGAGTGCGCCGAGACAACCGA
GATCGTGTTGGTCGTAGTGTCATGCCAAATGGAACGCCGGACGTAGTCATATTTCCTGAAGCAAAACCAG
GTGCGGGCGTGACAAACAGATCTGCGTCTCCGGTCTCGCCGCTTAGATCGCTCTGTGTAGTAGTTGTAGT
ATATCCACTCTCTCAAAGCATCCAGGCGCCCCCTGGCTTCGGGTTCTATGTAAACTCCTTCATGCGCCGC
TGCCCTGATAACATCCACCACCGCAGAATAAGCCACACCCAGCCAACCTACACATTCGTTCTGCGAGTCA
CACACGGGAGGAGCGGGAAGAGCTGGAAGAACCATGTTTTTTTTTTTATTCCAAAAGATTATCCAAAACC
TCAAAATGAAGATCTATTAAGTGAACGCGCTCCCCTCCGGTGGCGTGGTCAAACTCTACAGCCAAAGAAC
AGATAATGGCATTTGTAAGATGTTGCACAATGGCTTCCAAAAGGCAAACGGCCCTCACGTCCAAGTGGAC
GTAAAGGCTAAACCCTTCAGGGTGAATCTCCTCTATAAACATTCCAGCACCTTCAACCATGCCCAAATAA
TTCTCATCTCGCCACCTTCTCAATATATCTCTAAGCAAATCCCGAATATTAAGTCCGGCCATTGTAAAAA
TCTGCTCCAGAGCGCCCTCCACCTTCAGCCTCAAGCAGCGAATCATGATTGCAAAAATTCAGGTTCCTCA
CAGACCTGTATAAGATTCAAAAGCGGAACATTAACAAAAATACCGCGATCCCGTAGGTCCCTTCGCAGGG
CCAGCTGAACATAATCGTGCAGGTCTGCACGGACCAGCGCGGCCACTTCCCCGCCAGGAACCTTGACAAA
AGAACCCACACTGATTATGACACGCATACTCGGAGCTATGCTAACCAGCGTAGCCCCGATGTAAGCTTTG
TTGCATGGGCGGCGATATAAAATGCAAGGTGCTGCTCAAAAAATCAGGCAAAGCCTCGCGCAAAAAAGAA
AGCACATCGTAGTCATGCTCATGCAGATAAAGGCAGGTAAGCTCCGGAACCACCACAGAAAAAGACACCA
TTTTTCTCTCAAACATGTCTGCGGGTTTCTGCATAAACACAAAATAAAATAACAAAAAAACATTTAAACA
TTAGAAGCCTGTCTTACAACAGGAAAAACAACCCTTATAAGCATAAGACGGACTACGGCCATGCCGGCGT
GACCGTAAAAAAACTGGTCACCGTGATTAAAAAGCACCACCGACAGCTCCTCGGTCATGTCCGGAGTCAT
AATGTAAGACTCGGTAAACACATCAGGTTGATTCACATCGGTCAGTGCTAAAAAGCGACCGAAATAGCCC
GGGGGAATACATACCCGCAGGCGTAGAGACAACATTACAGCCCCCATAGGAGGTATAACAAAATTAATAG
GAGAGAAAAACACATAAACACCTGAAAAACCCTCCTGCCTAGGCAAAATAGCACCCTCCCGCTCCAGAAC
AACATACAGCGCTTCCACAGCGGCAGCCATAACAGTCAGCCTTACCAGTAAAAAAGAAAACCTATTAAAA
AAACACCACTCGACACGGCACCAGCTCAATCAGTCACAGTGTAAAAAAGGGCCAAGTGCAGAGCGAGTAT
ATATAGGACTAAAAAATGACGTAACGGTTAAAGTCCACAAAAAACACCCAGAAAACCGCACGCGAACCTA
CGCCCAGAAACGAAAGCCAAAAAACCCACAACTTCCTCAAATCGTCACTTCCGTTTTCCCACGTTACGTC
ACTTCCCATTTTAAGAAAACTACAATTCCCAACACATACAAGTTACTCCGCCCTAAAACCTACGTCACCC
GCCCCGTTCCCACGCCCCGCGCCACGTCACAAACTCCACCCCCTCATTATCATATTGGCTTCAATCCAAA
ATAAGGTATATTATTGATGATGTTAATTAATTTAAATCCGCATGCGATATCGAGCTCTCCCGGGAATTCG
GATCTGCGACGCGAGGCTGGATGGCCTTCCCCATTATGATTCTTCTCGCTTCCGGCGGCATCGGGATGCC
CGCGTTGCAGGCCATGCTGTCCAGGCAGGTAGATGACGACCATCAGGGACAGCTTCACGGCCAGCAAAAG
GCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCCTGACGAGCATCACA
AAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTGG
AAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCG
GGAAGCGTGGCGCTTTCTCAATGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTCGTTCGCTCCAAGC
TGGGCTGTGTGCACGAACCCCCCGTTCAGCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTC
CAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTAT
GTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGGACAGTATTTGGTA
TCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAACAAACCAC
CGCTGGTAGCGGTGGTTTTTTTGTTTGCAAGCAGCAGATTACGCGCAGAAAAAAAGGATCTCAAGAAGAT
CCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACTCACGTTAAGGGATTTTGGTCATGA
GATTATCAAAAAGGATCTTCACCTAGATCCTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCT
GACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTCGTTCATCCATAGTTG
CCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGAT
ACCGCGAGACCCACGCTCACCGGCTCCAGATTTATCAGCAATAAACCAGCCAGCCGGAAGGGCCGAGCGC
AGAAGTGGTCCTGCAACTTTATCCGCCTCCATCCAGTCTATTAATTGTTGCCGGGAAGCTAGAGTAAGTA
GTTCGCCAGTTAATAGTTTGCGCAACGTTGTTGCCATTGNTGCAGGCATCGTGGTGTCACGCTCGTCGTT
TGGTATGGCTTCATTCAGCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAA
AAAGCGGTTAGCTCCTTCGGTCCTCCGATCGTTGTCAGAAGTAAGTTGGCCGCAGTGTTATCACTCATGG
TTATGGCAGCACTGCATAATTCTCTTACTGTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTA
CTCAACCAAGTCATTCTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAACACGGGAT
AATACCGCGCCACATAGCAGAACTTTAAAAGTGCTCATCATTGGAAAACGTTCTTCGGGGCGAAAACTCT
CAAGGATCTTACCGCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATC

Table 10 (continued) Nucleotide sequence of pAd/PL-DEST™ (SEQ ID NO: 87).

TTTTACTTTCACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGCAAAAAAGGGAATAAGG
GCGACACGGAAATGTTGAATACTCATACTCTTCCTTTTTCAATATTATTGAAGCATTTATCAGGGTTATT
GTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCC
CCGAAAAGTGCCACCTGACGTCTAAGAAACCATTATTATCATGACATTAACCTATAAAAATAGGCGTATC
ACGAGGCCCTTTCGTCTTCAAGGATCCGAATTCCCGGGAGAGCTCGATATCGCATGCGGATTTAAATTAA
TTAA

Please amend Table 11 on pages 385-394 as follows:

Table 11: Nucleotide sequence of pAd/CMV/V5-GW/*lacZ*.PL-DEST™ (SEQ ID NO: 88).

CATCATCAATAATATACCTTATTTTGGATTGAAGCCAATATGATAATGAGGGGGTGGAGTTTGTGACGTG
GCGCGGGGCGTGGGAACGGGGCGGGTGACGTAGTAGTGTGGCGGAAGTGTGATGTTGCAAGTGTGGCGGA
ACACATGTAAGCGACGGATGTGGCAAAAGTGACGTTTTTGGTGTGCGCCGGTGTACACAGGAAGTGACAA
TTTTCGCGCGGTTTTAGGCGGATGTTGTAGTAAATTTGGGCGTAACCGAGTAAGATTTGGCCATTTTCGC
GGGAAAACTGAATAAGAGGAAGTGAAATCTGAATAATTTTGTGTTACTCATAGCGCGTAATATTTGTCTA
GGGCCGCGGGGACTTTGACCGTTTACGTGGAGACTCGCCCAGGTGTTTTTCTCAGGTGTTTTCCGCGTTC
CGGGTCAAAGTTGGCGTTTTATTATTATAGTCAGTCGAAGCTTGGATCCGGTACCTCTAGAATTCTCGAG
CGGCCGCTAGCGACATCGGATCTCCCGATCCCCTATGGTCGACTCTCAGTACAATCTGCTCTGATGCCGC
ATAGTTAAGCCAGTATCTGCTCCCTGCTTGTGTGTTGGAGGTCGCTGAGTAGTGCGCGAGCAAAATTTAA
GCTACAACAAGGCAAGGCTTGACCGACAATTGCATGAAGAATCTGCTTAGGGTTAGGCGTTTTGCGCTGC
TTCGCGATGTACGGGCCAGATATACGCGTTGACATTGATTATTGACTAGTTATTAATAGTAATCAATTAC
GGGGTCATTAGTTCATAGCCCATATATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCGCCTGGC
TGACCGCCCAACGACCCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGA
CTTTCCATTGACGTCAATGGGTGGACTATTTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGTATCA
TATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGTACATG
ACCTTATGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGATGCGGT
TTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTGACTCACGGGGATTTCCAAGTCTCCACCCCATTGA
CGTCAATGGGAGTTTGTTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAACAACTCCGCCCCA
TTGACGCAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCTCTGGCTAACTAGAG
AACCCACTGCTTACTGGCTTATCGAAATTAATACGACTCACTATAGGGAGACCCAAGCTGGCTAGTTAAG
CTATCAACAAGTTTGTACAAAAAAGCAGGCTCCGCGGCCGCCCCCTTCACCATGATAGATCCCGTCGTTT
TACAACGTCGTGACTGGGAAAACCCTGGCGTTACCCAACTTAATCGCCTTGCAGCACATCCCCCTTTCGC
CAGCTGGCGTAATAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAA
TGGCGCTTTGCCTGGTTTCCGGCACCAGAAGCGGTGCCGGAAAGCTGGCTGGAGTGCGATCTTCCTGAGG
CCGATACTGTCGTCGTCCCCTCAAACTGGCAGATGCACGGTTACGATGCGCCCATCTACACCAACGTAAC
CTATCCCATTACGGTCAATCCGCCGTTTGTTCCCACGGAGAATCCGACGGGTTGTTACTCGCTCACATTT
AATGTTGATGAAAGCTGGCTACAGGAAGGCCAGACGCGAATTATTTTTGATGGCGTTAACTCGGCGTTTC
ATCTGTGGTGCAACGGGCGCTGGGTCGGTTACGGCCAGGACAGTCGTTTGCCGTCTGAATTTGACCTGAG
CGCATTTTTACGCGCCGGAGAAAACCGCCTCGCGGTGATGGTGCTGCGTTGGAGTGACGGCAGTTATCTG
GAAGATCAGGATATGTGGCGGATGAGCGGCATTTTCCGTGACGTCTCGTTGCTGCATAAACCGACTACAC
AAATCAGCGATTTCCATGTTGCCACTCGCTTTAATGATGATTTCAGCCGCGCTGTACTGGAGGCTGAAGT
TCAGATGTGCGGCGAGTTGCGTGACTACCTACGGGTAACAGTTTCTTTATGGCAGGGTGAAACGCAGGTC
GCCAGCGGCACCGCGCCTTTCGGCGGTGAAATTATCGATGAGCGTGGTGGTTATGCCGATCGCGTCACAC
TACGTCTGAACGTCGAAAACCCGAAACTGTGGAGCGCCGAAATCCCGAATCTCTATCGTGCGGTGGTTGA
ACTGCACACCGCCGACGGCACGCTGATTGAAGCAGAAGCCTGCGATGTCGGTTTCCGCGAGGTGCGGATT
GAAAATGGTCTGCTGCTGCTGAACGGCAAGCCGTTGCTGATTCGAGGCGTTAACCGTCACGAGCATCATC
CTCTGCATGGTCAGGTCATGGATGAGCAGACGATGGTGCAGGATATCCTGCTGATGAAGCAGAACAACTT
TAACGCCGTGCGCTGTTCGCATTATCCGAACCATCCGCTGTGGTACACGCTGTGCGACCGCTACGGCCTG
TATGTGGTGGATGAAGCCAATATTGAAACCCACGGCATGGTGCCAATGAATCGTCTGACCGATGATCCGC
GCTGGCTACCGGCGATGAGCGAACGCGTAACGCGAATGGTGCAGCGCGATCGTAATCACCCGAGTGTGAT
CATCTGGTCGCTGGGGAATGAATCAGGCCACGGCGCTAATCACGACGCGCTGTATCGCTGGATCAAATCT
GTCGATCCTTCCCGCCCGGTGCAGTATGAAGGCGGCGGAGCCGACACCACGGCCACCGATATTATTTGCC
CGATGTACGCGCGCGTGGATGAAGACCAGCCCTTCCCGGCTGTGCCGAAATGGTCCATCAAAAAATGGCT
TTCGCTACCTGGAGAGACGCGCCCGCTGATCCTTTGCGAATACGCCCACGCGATGGGTAACAGTCTTGGC
GGTTTCGCTAAATACTGGCAGGCGTTTCGTCAGTATCCCCGTTTACAGGGCGGCTTCGTCTGGGACTGGG
TGGATCAGTCGCTGATTAAATATGATGAAAACGGCAACCCGTGGTCGGCTTACGGCGGTGATTTTGGCGA
TACGCCGAACGATCGCCAGTTCTGTATGAACGGTCTGGTCTTTGCCGACCGCACGCCGCATCCAGCGCTG
ACGGAAGCAAAACACCAGCAGCAGTTTTTCCAGTTCCGTTTATCCGGGCAAACCATCGAAGTGACCAGCG
AATACCTGTTCCGTCATAGCGATAACGAGCTCCTGCACTGGATGGTGGCGCTGGATGGTAAGCCGCTGGC
AAGCGGTGAAGTGCCTCTGGATGTCGCTCCACAAGGTAAACAGTTGATTGAACTGCCTGAACTACCGCAG
CCGGAGAGCGCCGGGCAACTCTGGCTCACAGTACGCGTAGTGCAACCGAACGCGACCGCATGGTCAGAAG
CCGGGCACATCAGCGCCTGGCAGCAGTGGCGTCTGGCGGAAAACCTCAGTGTGACGCTCCCCGCCGCGTC
CCACGCCATCCCGCATCTGACCACCAGCGAAATGGATTTTTGCATCGAGCTGGGTAATAAGCGTTGGCAA

Table 11 (continued) Nucleotide sequence of pAd/CMV/V5-GW/*lacZ*.PL-DEST™ (SEQ ID NO: 88).

TTTAACCGCCAGTCAGGCTTTCTTTCACAGATGTGGATTGGCGATAAAAAACAACTGCTGACGCCGCTGC
GCGATCAGTTCACCCGTGCACCGCTGGATAACGACATTGGCGTAAGTGAAGCGACCCGCATTGACCCTAA
CGCCTGGGTCGAACGCTGGAAGGCGGCGGGCCATTACCAGGCCGAAGCAGCGTTGTTGCAGTGCACGGCA
GATACACTTGCTGATGCGGTGCTGATTACGACCGCTCACGCGTGGCAGCATCAGGGGAAAACCTTATTTA
TCAGCCGGAAAACCTACCGGATTGATGGTAGTGGTCAAATGGCGATTACCGTTGATGTTGAAGTGGCGAG
CGATACACCGCATCCGGCGCGGATTGGCCTGAACTGCCAGCTGGCGCAGGTAGCAGAGCGGGTAAACTGG
CTCGGATTAGGGCCGCAAGAAAACTATCCCGACCGCCTTACTGCCGCCTGTTTTGACCGCTGGGATCTGC
CATTGTCAGACATGTATACCCCGTACGTCTTCCCGAGCGAAAACGGTCTGCGCTGCGGGACGCGCGAATT
GAATTATGGCCCACACCAGTGGCGCGGCGACTTCCAGTTCAACATCAGCCGCTACAGTCAACAGCAACTG
ATGGAAACCAGCCATCGCCATCTGCTGCACGCGGAAGAAGGCACATGGCTGAATATCGACGGTTTCCATA
TGGGGATTGGTGGCGACGACTCCTGGAGCCCGTCAGTATCGGCGGAGTTCCAGCTGAGCGCCGGTCGCTA
CCATTACCAGTTGGTCTGGTGTCAAAAACTAAGGGTGGGCGCGCCGACCCAGCTTTCTTGTACAAAGTG
GTTGATCTAGAGGGCCCGCGGTTCGAAGGTAAGCCTATCCCTAACCCTCTCCTCGGTCTCGATTCTACGC
GTACCGGTTAGTAATGAGTTTAAACGGGGGAGGCTAACTGAAACACGGAAGGAGACAATACCGGAAGGAA
CCCGCGCTATGACGGCAATAAAAAGACAGAATAAAACGCACGGGTGTTGGGTCGTTTGTTCATAAACGCG
GGGTTCGGTCCCAGGGCTGGCACTCTGTCGATACCCCACCGAGACCCCATTGGGGCCAATACGCCCGCGT
TTCTTCCTTTTCCCCACCCCACCCCCCAAGTTCGGGTGAAGGCCCAGGGCTCGCAGCCAACGTCGGGGCG
GCAGGCCCTGCCATAGCAGATCCGATTCGACAGATCACTGAAATGTGTGGGCGTGGCTTAAGGGTGGGAA
AGAATATATAAGGTGGGGGTCTTATGTAGTTTTGTATCTGTTTTGCAGCAGCCGCCGCCGCCATGAGCAC
CAACTCGTTTGATGGAAGCATTGTGAGCTCATATTTGACAACGCGCATGCCCCCATGGGCCGGGGTGCGT
CAGAATGTGATGGGCTCCAGCATTGATGGTCGCCCCGTCCTGCCCGCAAACTCTACTACCTTGACCTACG
AGACCGTGTCTGGAACGCCGTTGGAGACTGCAGCCTCCGCCGCCGCTTCAGCCGCTGCAGCCACCGCCCG
CGGGATTGTGACTGACTTTGCTTTCCTGAGCCCGCTTGCAAGCAGTGCAGCTTCCCGTTCATCCGCCCGC
GATGACAAGTTGACGGCTCTTTTGGCACAATTGGATTCTTTGACCCGGGAACTTAATGTCGTTTCTCAGC
AGCTGTTGGATCTGCGCCAGCAGGTTTCTGCCCTGAAGGCTTCCTCCCCTCCCAATGCGGTTTAAAACAT
AAATAAAAAACCAGACTCTGTTTGGATTTGGATCAAGCAAGTGTCTTGCTGTCTTTATTTAGGGGTTTTG
CGCGCGCGGTAGGCCCGGGACCAGCGGTCTCGGTCGTTGAGGGTCCTGTGTATTTTTTCCAGGACGTGGT
AAAGGTGACTCTGGATGTTCAGATACATGGGCATAAGCCCGTCTCTGGGGTGGAGGTAGCACCACTGCAG
AGCTTCATGCTGCGGGGTGGTGTTGTAGATGATCCAGTCGTAGCAGGAGCGCTGGGCGTGGTGCCTAAAA
ATGTCTTTCAGTAGCAAGCTGATTGCCAGGGGCAGGCCCTTGGTGTAAGTGTTTACAAAGCGGTTAAGCT
GGGATGGGTGCATACGTGGGGATATGAGATGCATCTTGGACTGTATTTTTAGGTTGGCTATGTTCCCAGC
CATATCCCTCCGGGGATTCATGTTGTGCAGAACCACCAGCACAGTGTATCCGGTGCACTTGGGAAATTTG
TCATGTAGCTTAGAAGGAAATGCGTGGAAGAACTTGGAGACGCCCTTGTGACCTCCAAGATTTTCCATGC
ATTCGTCCATAATGATGGCAATGGGCCCACGGGCGGCGGCCTGGGCGAAGATATTTCTGGGATCACTAAC
GTCATAGTTGTGTTCCAGGATGAGATCGTCATAGGCCATTTTTACAAAGCGCGGGCGGAGGGTGCCAGAC
TGCGGTATAATGGTTCCATCCGGCCCAGGGGCGTAGTTACCCTCACAGATTTGCATTTCCCACGCTTTGA
GTTCAGATGGGGGGATCATGTCTACCTGCGGGGCGATGAAGAAAACGGTTTCCGGGGTAGGGGAGATCAG
CTGGGAAGAAAGCAGGTTCCTGAGCAGCTGCGACTTACCGCAGCCGGTGGGCCCGTAAATCACACCTATT
ACCGGGTGCAACTGGTAGTTAAGAGAGCTGCAGCTGCCGTCATCCCTGAGCAGGGGGGCCACTTCGTTAA
GCATGTCCCTGACTCGCATGTTTTCCCTGACCAAATCCGCCAGAAGGCGCTCGCCGCCCAGCGATAGCAG
TTCTTGCAAGGAAGCAAAGTTTTTCAACGGTTTGAGACCGTCCGCCGTAGGCATGCTTTTGAGCGTTTGA
CCAAGCAGTTCCAGGCGGTCCCACAGCTCGGTCACCTGCTCTACGGCATCTCGATCCAGCATATCTCCTC
GTTTCGCGGGTTGGGGCGGCTTTCGCTGTACGGCAGTAGTCGGTGCTCGTCCAGACGGGCCAGGGTCATG
TCTTTCCACGGGCGCAGGGTCCTCGTCAGCGTAGTCTGGGTCACGGTGAAGGGGTGCGCTCCGGGCTGCG
CGCTGGCCAGGGTGCGCTTGAGGCTGGTCCTGCTGGTGCTGAAGCGCTGCCGGTCTTCGCCCTGCGCGTC
GGCCAGGTAGCATTTGACCATGGTGTCATAGTCCAGCCCCTCCGCGGCGTGGCCCTTGGCGCGCAGCTTG
CCCTTGGAGGAGGCGCCGCACGAGGGGCAGTGCAGACTTTTGAGGGCGTAGAGCTTGGGCGCGAGAAATA
CCGATTCCGGGGAGTAGGCATCCGCGCCGCAGGCCCCGCAGACGGTCTCGCATTCCACGAGCCAGGTGAG
CTCTGGCCGTTCGGGGTCAAAAACCAGGTTTCCCCCATGCTTTTTGATGCGTTTCTTACCTCTGGTTTCC
ATGAGCCGGTGTCCACGCTCGGTGACGAAAAGGCTGTCCGTGTCCCCGTATACAGACTTGAGAGGCCTGT
CCTCGAGCGGTGTTCCGCGGTCCTCCTCGTATAGAAACTCGGACCACTCTGAGACAAAGGCTCGCGTCCA
GGCCAGCACGAAGGAGGCTAAGTGGGAGGGGTAGCGGTCGTTGTCCACTAGGGGGTCCACTCGCTCCAGG
GTGTGAAGACACATGTCGCCCTCTTCGGCATCAAGGAAGGTGATTGGTTTGTAGGTGTAGGCCACGTGAC
CGGGTGTTCCTGAAGGGGGGCTATAAAAGGGGGTGGGGGCGCGTTCGTCCTCACTCTCTTCCGCATCGCT

Table 11 (continued) Nucleotide sequence of pAd/CMV/V5-GW/*lacZ*.PL-DEST™ (SEQ ID NO: 88).

GTCTGCGAGGGCCAGCTGTTGGGGTGAGTACTCCCTCTGAAAAGCGGGCATGACTTCTGCGCTAAGATTG
TCAGTTTCCAAAAACGAGGAGGATTTGATATTCACCTGGCCCGCGGTGATGCCTTTGAGGGTGGCCGCAT
CCATCTGGTCAGAAAAGACAATCTTTTTGTTGTCAAGCTTGGTGGCAAACGACCCGTAGAGGGCGTTGGA
CAGCAACTTGGCGATGGAGCGCAGGGTTTGGTTTTTGTCGCGATCGGCGCGCTCCTTGGCCGCGATGTTT
AGCTGCACGTATTCGCGCGCAACGCACCGCCATTCGGGAAAGACGGTGGTGCGCTCGTCGGGCACCAGGT
GCACGCGCCAACCGCGGTTGTGCAGGGTGACAAGGTCAACGCTGGTGGCTACCTCTCCGCGTAGGCGCTC
GTTGGTCCAGCAGAGGCGGCCGCCCTTGCGCGAGCAGAATGGCGGTAGGGGGTCTAGCTGCGTCTCGTCC
GGGGGGTCTGCGTCCACGGTAAAGACCCCGGGCAGCAGGCGCGCGTCGAAGTAGTCTATCTTGCATCCTT
GCAAGTCTAGCGCCTGCTGCCATGCGCGGGCGGCAAGCGCGCGCTCGTATGGGTTGAGTGGGGGACCCCA
TGGCATGGGGTGGGTGAGCGCGGAGGCGTACATGCCGCAAATGTCGTAAACGTAGAGGGGCTCTCTGAGT
ATTCCAAGATATGTAGGGTAGCATCTTCCACCGCGGATGCTGGCGCGCACGTAATCGTATAGTTCGTGCG
AGGGAGCGAGGAGGTCGGGACCGAGGTTGCTACGGGCGGGCTGCTCTGCTCGGAAGACTATCTGCCTGAA
GATGGCATGTGAGTTGGATGATATGGTTGGACGCTGGAAGACGTTGAAGCTGGCGTCTGTGAGACCTACC
GCGTCACGCACGAAGGAGGCGTAGGAGTCGCGCAGCTTGTTGACCAGCTCGGCGGTGACCTGCACGTCTA
GGGCGCAGTAGTCCAGGGTTTCCTTGATGATGTCATACTTATCCTGTCCCTTTTTTTTCCACAGCTCGCG
GTTGAGGACAAACTCTTCGCGGTCTTTCCAGTACTCTTGGATCGGAAACCCGTCGGCCTCCGAACGGTAA
GAGCCTAGCATGTAGAACTGGTTGACGGCCTGGTAGGCGCAGCATCCCTTTTCTACGGGTAGCGCGTATG
CCTGCGCGGCCTTCCGGAGCGAGGTGTGGGTGAGCGCAAAGGTGTCCCTGACCATGACTTTGAGGTACTG
GTATTTGAAGTCAGTGTCGTCGCATCCGCCCTGCTCCCAGAGCAAAAAGTCCGTGCGCTTTTTGGAACGC
GGATTTGGCAGGGCGAAGGTGACATCGTTGAAGAGTATCTTTCCCGCGCGAGGCATAAAGTTGCGTGTGA
TGCGGAAGGGTCCCGGCACCTCGGAACGGTTGTTAATTACCTGGGCGGCGAGCACGATCTCGTCAAAGCC
GTTGATGTTGTGGCCCACAATGTAAAGTTCCAAGAAGCGCGGGATGCCCTTGATGGAAGGCAATTTTTTA
AGTTCCTCGTAGGTGAGCTCTTCAGGGGAGCTGAGCCCGTGCTCTGAAAGGGCCCAGTCTGCAAGATGAG
GGTTGGAAGCGACGAATGAGCTCCACAGGTCACGGGCCATTAGCATTTGCAGGTGGTCGCGAAAGGTCCT
AAACTGGCGACCTATGGCCATTTTTTCTGGGGTGATGCAGTAGAAGGTAAGCGGGTCTTGTTCCCAGCGG
TCCCATCCAAGGTTCGCGGCTAGGTCTCGCGCGGCAGTCACTAGAGGCTCATCTCCGCCGAACTTCATGA
CCAGCATGAAGGGCACGAGCTGCTTCCCAAAGGCCCCCATCCAAGTATAGGTCTCTACATCGTAGGTGAC
AAAGAGACGCTCGGTGCGAGGATGCGAGCCGATCGGGAAGAACTGGATCTCCCGCCACCAATTGGAGGAG
TGGCTATTGATGTGGTGAAAGTAGAAGTCCCTGCGACGGGCCGAACACTCGTGCTGGCTTTTGTAAAAAC
GTGCGCAGTACTGGCAGCGGTGCACGGGCTGTACATCCTGCACGAGGTTGACCTGACGACCGCGCACAAG
GAAGCAGAGTGGGAATTTGAGCCCCTCGCCTGGCGGGTTTGGCTGGTGGTCTTCTACTTCGGCTGCTTGT
CCTTGACCGTCTGGCTGCTCGAGGGGAGTTACGGTGGATCGGACCACCACGCCGCGCGAGCCCAAAGTCC
AGATGTCCGCGCGCGGCGGTCGGAGCTTGATGACAACATCGCGCAGATGGGAGCTGTCCATGGTCTGGAG
CTCCCGCGGCGTCAGGTCAGGCGGGAGCTCCTGCAGGTTTACCTCGCATAGACGGGTCAGGGCGCGGGCT
AGATCCAGGTGATACCTAATTTCCAGGGGCTGGTTGGTGGCGGCGTCGATGGCTTGCAAGAGGCCGCATC
CCCGCGGCGCGACTACGGTACCGCGCGGCGGGCGGTGGGCCGCGGGGGTGTCCTTGGATGATGCATCTAA
AAGCGGTGACGCGGGCGAGCCCCCGGAGGTAGGGGGGGCTCCGGACCCGCCGGGAGAGGGGGCAGGGGCA
CGTCGGCGCCGCGCGCGGGCAGGAGCTGGTGCTGCGCGCGTAGGTTGCTGGCGAACGCGACGACGCGGCG
GTTGATCTCCTGAATCTGGCGCCTCTGCGTGAAGACGACGGGCCCGGTGAGCTTGAGCCTGAAAGAGAGT
TCGACAGAATCAATTTCGGTGTCGTTGACGGCGGCCTGGCGCAAAATCTCCTGCACGTCTCCTGAGTTGT
CTTGATAGGCGATCTCGGCCATGAACTGCTCGATCTCTTCCTCCTGGAGATCTCCGCGTCCGGCTCGCTC
CACGGTGGCGGCGAGGTCGTTGGAAATGCGGGCCATGAGCTGCGAGAAGGCGTTGAGGCCTCCCTCGTTC
CAGACGCGGCTGTAGACCACGCCCCCTTCGGCATCGCGGGCGCGCATGACCACCTGCGCGAGATTGAGCT
CCACGTGCCGGGCGAAGACGGCGTAGTTTCGCAGGCGCTGAAAGAGGTAGTTGAGGGTGGTGGCGGTGTG
TTCTGCCACGAAGAAGTACATAACCCAGCGTCGCAACGTGGATTCGTTGATATCCCCCAAGGCCTCAAGG
CGCTCCATGGCCTCGTAGAAGTCCACGGCGAAGTTGAAAAACTGGGAGTTGCGCGCCGACACGGTTAACT
CCTCCTCCAGAAGACGGATGAGCTCGGCGACAGTGTCGCGCACCTCGCGCTCAAAGGCTACAGGGGCCTC
TTCTTCTTCTTCAATCTCCTCTTCCATAAGGGCCTCCCCTTCTTCTTCTTCTGGCGGCGGTGGGGGAGGG
GGGACACGGCGGCGACGACGGCGCACCGGGAGGCGGTCGACAAAGCGCTCGATCATCTCCCCGCGGCGAC
GGCGCATGGTCTCGGTGACGGCGCGGCCGTTCTCGCGGGGGCGCAGTTGGAAGACGCCGCCCGTCATGTC
CCGGTTATGGGTTGGCGGGGGGCTGCCATGCGGCAGGGATACGGCGCTAACGATGCATCTCAACAATTGT
TGTGTAGGTACTCCGCCGCCGAGGGACCTGAGCGAGTCCGCATCGACCGGATCGGAAAACCTCTCGAGAA
AGGCGTCTAACCAGTCACAGTCGCAAGGTAGGCTGAGCACCGTGGCGGGCGGCAGCGGGCGGCGGTCGGG
GTTGTTTCTGGCGGAGGTGCTGCTGATGATGTAATTAAAGTAGGCGGTCTTGAGACGGCGGATGGTCGAC

Table 11 (continued) Nucleotide sequence of pAd/CMV/V5-GW/*lacZ*.PL-DEST™ (SEQ ID NO: 88).

AGAAGCACCATGTCCTTGGGTCCGGCCTGCTGAATGCGCAGGCGGTCGGCCATGCCCCAGGCTTCGTTTT
GACATCGGCGCAGGTCTTTGTAGTAGTCTTGCATGAGCCTTTCTACCGGCACTTCTTCTTCTCCTTCCTC
TTGTCCTGCATCTCTTGCATCTATCGCTGCGGCGGCGGCGGAGTTTGGCCGTAGGTGGCGCCCTCTTCCT
CCCATGCGTGTGACCCCGAAGCCCCTCATCGGCTGAAGCAGGGCTAGGTCGGCGACAACGCGCTCGGCTA
ATATGGCCTGCTGCACCTGCGTGAGGGTAGACTGGAAGTCATCCATGTCCACAAAGCGGTGGTATGCGCC
CGTGTTGATGGTGTAAGTGCAGTTGGCCATAACGGACCAGTTAACGGTCTGGTGACCCGGCTGCGAGAGC
TCGGTGTACCTGAGACGCGAGTAAGCCCTCGAGTCAAATACGTAGTCGTTGCAAGTCCGCACCAGGTACT
GGTATCCCACCAAAAAGTGCGGCGGCGGCTGGCGGTAGAGGGGCCAGCGTAGGGTGGCCGGGGCTCCGGG
GGCGAGATCTTCCAACATAAGGCGATGATATCCGTAGATGTACCTGGACATCCAGGTGATGCCGGCGGCG
GTGGTGGAGGCGCGCGGAAAGTCGCGGACGCGGTTCCAGATGTTGCGCAGCGGCAAAAAGTGCTCCATGG
TCGGGACGCTCTGGCCGGTCAGGCGCGCGCAATCGTTGACGCTCTAGACCGTGCAAAAGGAGAGCCTGTA
AGCGGGCACTCTTCCGTGGTCTGGTGGATAAATTCGCAAGGGTATCATGGCGGACGACCGGGGTTCGAGC
CCCGTATCCGGCCGTCCGCCGTGATCCATGCGGTTACCGCCCGCGTGTCGAACCCAGGTGTGCGACGTCA
GACAACGGGGGAGTGCTCCTTTTGGCTTCCTTCCAGGCGCGGCGGCTGCTGCGCTAGCTTTTTTGGCCAC
TGGCCGCGCGCAGCGTAAGCGGTTAGGCTGGAAAGCGAAAGCATTAAGTGGCTCGCTCCCTGTAGCCGGA
GGGTTATTTTCCAAGGGTTGAGTCGCGGGACCCCCGGTTCGAGTCTCGGACCGGCCGGACTGCGGCGAAC
GGGGGTTTGCCTCCCCGTCATGCAAGACCCCGCTTGCAAATTCCTCCGGAAACAGGGACGAGCCCCTTTT
TTGCTTTTCCCAGATGCATCCGGTGCTGCGGCAGATGCGCCCCCCTCCTCAGCAGCGGCAAGAGCAAGAG
CAGCGGCAGACATGCAGGGCACCCTCCCCTCCTCCTACCGCGTCAGGAGGGGCGACATCCGCGGTTGACG
CGGCAGCAGATGGTGATTACGAACCCCCGCGGCGCCGGGCCCGGCACTACCTGGACTTGGAGGAGGGCGA
GGGCCTGGCGCGGCTAGGAGCGCCCTCTCCTGAGCGGTACCCAAGGGTGCAGCTGAAGCGTGATACGCGT
GAGGCGTACGTGCCGCGGCAGAACCTGTTTCGCGACCGCGAGGGAGAGGAGCCCGAGGAGATGCGGGATC
GAAAGTTCCACGCAGGGCGCGAGCTGCGGCATGGCCTGAATCGCGAGCGGTTGCTGCGCGAGGAGGACTT
TGAGCCCGACGCGCGAACCGGGATTAGTCCCGCGCGCGCACACGTGGCGGCCGCCGACCTGGTAACCGCA
TACGAGCAGACGGTGAACCAGGAGATTAACTTTCAAAAAAGCTTTAACAACCACGTGCGTACGCTTGTGG
CGCGCGAGGAGGTGGCTATAGGACTGATGCATCTGTGGGACTTTGTAAGCGCGCTGGAGCAAAACCCAAA
TAGCAAGCCGCTCATGGCGCAGCTGTTCCTTATAGTGCAGCACAGCAGGGACAACGAGGCATTCAGGGAT
GCGCTGCTAAACATAGTAGAGCCCGAGGGCCGCTGGCTGCTCGATTTGATAAACATCCTGCAGAGCATAG
TGGTGCAGGAGCGCAGCTTGAGCCTGGCTGACAAGGTGGCCGCCATCAACTATTCCATGCTTAGCCTGGG
CAAGTTTTACGCCCGCAAGATATACCATACCCCTTACGTTCCCATAGACAAGGAGGTAAAGATCGAGGGG
TTCTACATGCGCATGGCGCTGAAGGTGCTTACCTTGAGCGACGACCTGGGCGTTTATCGCAACGAGCGCA
TCCACAAGGCCGTGAGCGTGAGCCGGCGGCGCGAGCTCAGCGACCGCGAGCTGATGCACAGCCTGCAAAG
GGCCCTGGCTGGCACGGGCAGCGGCGATAGAGAGGCCGAGTCCTACTTTGACGCGGGCGCTGACCTGCGC
TGGGCCCCAAGCCGACGCGCCCTGGAGGCAGCTGGGGCCGGACCTGGGCTGGCGGTGGCACCCGCGCGCG
CTGGCAACGTCGGCGGCGTGGAGGAATATGACGAGGACGATGAGTACGAGCCAGAGGACGGCGAGTACTA
AGCGGTGATGTTTCTGATCAGATGATGCAAGACGCAACGGACCCGGCGGTGCGGGCGGCGCTGCAGAGCC
AGCCGTCCGGCCTTAACTCCACGGACGACTGGCGCCAGGTCATGGACCGCATCATGTCGCTGACTGCGCG
CAATCCTGACGCGTTCCGGCAGCAGCCGCAGGCCAACCGGCTCTCCGCAATTCTGGAAGCGGTGGTCCCG
GCGCGCGCAAACCCCACGCACGAGAAGGTGCTGGCGATCGTAAACGCGCTGGCCGAAAACAGGGCCATCC
GGCCCGACGAGGCCGGCCTGGTCTACGACGCGCTGCTTCAGCGCGTGGCTCGTTACAACAGCGGCAACGT
GCAGACCAACCTGGACCGGCTGGTGGGGGATGTGCGCGAGGCCGTGGCGCAGCGTGAGCGCGCGCAGCAG
CAGGGCAACCTGGGCTCCATGGTTGCACTAAACGCCTTCCTGAGTACACAGCCCGCCAACGTGCCGCGGG
GACAGGAGGACTACACCAACTTTGTGAGCGCACTGCGGCTAATGGTGACTGAGACACCGCAAAGTGAGGT
GTACCAGTCTGGGCCAGACTATTTTTTCCAGACCAGTAGACAAGGCCTGCAGACCGTAAACCTGAGCCAG
GCTTTCAAAAACTTGCAGGGGCTGTGGGGGGTGCGGGCTCCCACAGGCGACCGCGCGACCGTGTCTAGCT
TGCTGACGCCCAACTCGCGCCTGTTGCTGCTGCTAATAGCGCCCTTCACGGACAGTGGCAGCGTGTCCCG
GGACACATACCTAGGTCACTTGCTGACACTGTACCGCGAGGCCATAGGTCAGGCGCATGTGGACGAGCAT
ACTTTCCAGGAGATTACAAGTGTCAGCCGCGCGCTGGGGCAGGAGGACACGGGCAGCCTGGAGGCAACCC
TAAACTACCTGCTGACCAACCGGCGGCAGAAGATCCCCTCGTTGCACAGTTTAAACAGCGAGGAGGAGCG
CATTTTGCGCTACGTGCAGCAGAGCGTGAGCCTTAACCTGATGCGCGACGGGGTAACGCCCAGCGTGGCG
CTGGACATGACCGCGCGCAACATGGAACCGGGCATGTATGCCTCAAACCGGCCGTTTATCAACCGCCTAA
TGGACTACTTGCATCGCGCGGCCGCCGTGAACCCCGAGTATTTCACCAATGCCATCTTGAACCCGCACTG
GCTACCGCCCCCTGGTTTCTACACCGGGGGATTCGAGGTGCCCGAGGGTAACGATGGATTCCTCTGGGAC
GACATAGACGACAGCGTGTTTTCCCCGCAACCGCAGACCCTGCTAGAGTTGCAACAGCGCGAGCAGGCAG

Table 11 (continued) Nucleotide sequence of pAd/CMV/V5-GW/*lacZ*.PL-DEST™ (SEQ ID NO: 88).

AGGCGGCGCTGCGAAAGGAAAGCTTCCGCAGGCCAAGCAGCTTGTCCGATCTAGGCGCTGCGGCCCCGCG
GTCAGATGCTAGTAGCCCATTTCCAAGCTTGATAGGGTCTCTTACCAGCACTCGCACCACCCGCCCGCGC
CTGCTGGGCGAGGAGGAGTACCTAAACAACTCGCTGCTGCAGCCGCAGCGCGAAAAAAACCTGCCTCCGG
CATTTCCCAACAACGGGATAGAGAGCCTAGTGGACAAGATGAGTAGATGGAAGACGTACGCGCAGGAGCA
CAGGGACGTGCCAGGCCCGCGCCCGCCCACCCGTCGTCAAAGGCACGACCGTCAGCGGGGTCTGGTGTGG
GAGGACGATGACTCGGCAGACGACAGCAGCGTCCTGGATTTGGGAGGGAGTGGCAACCCGTTTGCGCACC
TTCGCCCCAGGCTGGGGAGAATGTTTTAAAAAAAAAAAAGCATGATGCAAAATAAAAAACTCACCAAGGC
CATGGCACCGAGCGTTGGTTTTCTTGTATTCCCCTTAGTATGCGGCGCGCGGCGATGTATGAGGAAGGTC
CTCCTCCCTCCTACGAGAGTGTGGTGAGCGCGGCGCCAGTGGCGGCGGCGCTGGGTTCTCCCTTCGATGC
TCCCCTGGACCCGCCGTTTGTGCCTCCGCGGTACCTGCGGCCTACCGGGGGGAGAAACAGCATCCGTTAC
TCTGAGTTGGCACCCCTATTCGACACCACCCGTGTGTACCTGGTGGACAACAAGTCAACGGATGTGGCAT
CCCTGAACTACCAGAACGACCACAGCAACTTTCTGACCACGGTCATTCAAAACAATGACTACAGCCCGGG
GGAGGCAAGCACACAGACCATCAATCTTGACGACCGGTCGCACTGGGGCGGCGACCTGAAAACCATCCTG
CATACCAACATGCCAAATGTGAACGAGTTCATGTTTACCAATAAGTTTAAGGCGCGGGTGATGGTGTCGC
GCTTGCCTACTAAGGACAATCAGGTGGAGCTGAAATACGAGTGGGTGGAGTTCACGCTGCCCGAGGGCAA
CTACTCCGAGACCATGACCATAGACCTTATGAACAACGCGATCGTGGAGCACTACTTGAAAGTGGGCAGA
CAGAACGGGGTTCTGGAAAGCGACATCGGGGTAAAGTTTGACACCCGCAACTTCAGACTGGGGTTTGACC
CCGTCACTGGTCTTGTCATGCCTGGGGTATATACAAACGAAGCCTTCCATCCAGACATCATTTTGCTGCC
AGGATGCGGGGTGGACTTCACCCACAGCCGCCTGAGCAACTTGTTGGGCATCCGCAAGCGGCAACCCTTC
CAGGAGGGCTTTAGGATCACCTACGATGATCTGGAGGGTGGTAACATTCCCGCACTGTTGGATGTGGACG
CCTACCAGGCGAGCTTGAAAGATGACACCGAACAGGGCGGGGGTGGCGCAGGCGGCAGCAACAGCAGTGG
CAGCGGCGCGGAAGAGAACTCCAACGCGGCAGCCGCGGCAATGCAGCCGGTGGAGGACATGAACGATCAT
GCCATTCGCGGCGACACCTTTGCCACACGGGCTGAGGAGAAGCGCGCTGAGGCCGAAGCAGCGGCCGAAG
CTGCCGCCCCCGCTGCGCAACCCGAGGTCGAGAAGCCTCAGAAGAAACCGGTGATCAAACCCCTGACAGA
GGACAGCAAGAAACGCAGTTACAACCTAATAAGCAATGACAGCACCTTCACCCAGTACCGCAGCTGGTAC
CTTGCATACAACTACGGCGACCCTCAGACCGGAATCCGCTCATGGACCCTGCTTTGCACTCCTGACGTAA
CCTGCGGCTCGGAGCAGGTCTACTGGTCGTTGCCAGACATGATGCAAGACCCCGTGACCTTCCGCTCCAC
GCGCCAGATCAGCAACTTTCCGGTGGTGGGCGCCGAGCTGTTGCCCGTGCACTCCAAGAGCTTCTACAAC
GACCAGGCCGTCTACTCCCAACTCATCCGCCAGTTTACCTCTCTGACCCACGTGTTCAATCGCTTTCCCG
AGAACCAGATTTTGGCGCGCCCGCCAGCCCCCACCATCACCACCGTCAGTGAAAACGTTCCTGCTCTCAC
AGATCACGGGACGCTACCGCTGCGCAACAGCATCGGAGGAGTCCAGCGAGTGACCATTACTGACGCCAGA
CGCCGCACCTGCCCCTACGTTTACAAGGCCCTGGGCATAGTCTCGCCGCGCGTCCTATCGAGCCGCACTT
TTTGAGCAAGCATGTCCATCCTTATATCGCCCAGCAATAACACAGGCTGGGGCCTGCGCTTCCCAAGCAA
GATGTTTGGCGGGGCCAAGAAGCGCTCCGACCAACACCCAGTGCGCGTGCGCGGGCACTACCGCGCGCCC
TGGGGCGCGCACAAACGCGGCCGCACTGGGCGCACCACCGTCGATGACGCCATCGACGCGGTGGTGGAGG
AGGCGCGCAACTACACGCCCACGCCGCCACCAGTGTCCACAGTGGACGCGGCCATTCAGACCGTGGTGCG
CGGAGCCCGGCGCTATGCTAAAATGAAGAGACGGCGGAGGCGCGTAGCACGTCGCCACCGCCGCCGACCC
GGCACTGCCGCCCAACGCGCGGCGGCGGCCCTGCTTAACCGCGCACGTCGCACCGGCCGACGGGCGGCCA
TGCGGGCCGCTCGAAGGCTGGCCGCGGGTATTGTCACTGTGCCCCCCAGGTCCAGGCGACGAGCGGCCGC
CGCAGCAGCCGCGGCCATTAGTGCTATGACTCAGGGTCGCAGGGGCAACGTGTATTGGGTGCGCGACTCG
GTTAGCGGCCTGCGCGTGCCCGTGCGCACCCGCCCCCCGCGCAACTAGATTGCAAGAAAAAACTACTTAG
ACTCGTACTGTTGTATGTATCCAGCGGCGGCGGCGCGCAACGAAGCTATGTCCAAGCGCAAAATCAAAGA
AGAGATGCTCCAGGTCATCGCGCCGGAGATCTATGGCCCCCCGAAGAAGGAAGAGCAGGATTACAAGCCC
CGAAAGCTAAAGCGGGTCAAAAAGAAAAAGAAAGATGATGATGATGAACTTGACGACGAGGTGGAACTGC
TGCACGCTACCGCGCCCAGGCGACGGGTACAGTGGAAAGGTCGACGCGTAAAACGTGTTTTGCGACCCGG
CACCACCGTAGTCTTTACGCCCGGTGAGCGCTCCACCCGCACCTACAAGCGCGTGTATGATGAGGTGTAC
GGCGACGAGGACCTGCTTGAGCAGGCCAACGAGCGCCTCGGGGAGTTTGCCTACGGAAAGCGGCATAAGG
ACATGCTGGCGTTGCCGCTGGACGAGGGCAACCCAACACCTAGCCTAAAGCCCGTAACACTGCAGCAGGT
GCTGCCCGCGCTTGCACCGTCCGAAGAAAAGCGCGGCCTAAAGCGCGAGTCTGGTGACTTGGCACCCACC
GTGCAGCTGATGGTACCCAAGCGCCAGCGACTGGAAGATGTCTTGGAAAAAATGACCGTGGAACCTGGGC
TGGAGCCCGAGGTCCGCGTGCGGCCAATCAAGCAGGTGGCGCCGGGACTGGGCGTGCAGACCGTGGACGT
TCAGATACCCACTACCAGTAGCACCAGTATTGCCACCGCCACAGAGGGCATGGAGACACAAACGTCCCCG
GTTGCCTCAGCGGTGGCGGATGCCGCGGTGCAGGCGGTCGCTGCGGCCGCGTCCAAGACCTCTACGGAGG
TGCAAACGGACCCGTGGATGTTTCGCGTTTCAGCCCCCCGGCGCCCGCGCGGTTCGAGGAAGTACGGCGC

Table 11 (continued) Nucleotide sequence of pAd/CMV/V5-GW/*lacZ*.PL-DEST™ (SEQ ID NO: 88).

CGCCAGCGCGCTACTGCCCGAATATGCCCTACATCCTTCCATTGCGCCTACCCCCGGCTATCGTGGCTAC
ACCTACCGCCCCAGAAGACGAGCAACTACCCGACGCCGAACCACCACTGGAACCCGCCGCCGCCGTCGCC
GTCGCCAGCCCGTGCTGGCCCCGATTTCCGTGCGCAGGGTGGCTCGCGAAGGAGGCAGGACCCTGGTGCT
GCCAACAGCGCGCTACCACCCCAGCATCGTTTAAAAGCCGGTCTTTGTGGTTCTTGCAGATATGGCCCTC
ACCTGCCGCCTCCGTTTCCCGGTGCCGGGATTCCGAGGAAGAATGCACCGTAGGAGGGGCATGGCCGGCC
ACGGCCTGACGGGCGGCATGCGTCGTGCGCACCACCGGCGGCGGCGCGCGTCGCACCGTCGCATGCGCGG
CGGTATCCTGCCCCTCCTTATTCCACTGATCGCCGCGGCGATTGGCGCCGTGCCCGGAATTGCATCCGTG
GCCTTGCAGGCGCAGAGACACTGATTAAAAACAAGTTGCATGTGGAAAAATCAAAATAAAAAGTCTGGAC
TCTCACGCTCGCTTGGTCCTGTAACTATTTTGTAGAATGGAAGACATCAACTTTGCGTCTCTGGCCCCGC
GACACGGCTCGCGCCCGTTCATGGGAAACTGGCAAGATATCGGCACCAGCAATATGAGCGGTGGCGCCTT
CAGCTGGGGCTCGCTGTGGAGCGGCATTAAAAATTTCGGTTCCACCGTTAAGAACTATGGCAGCAAGGCC
TGGAACAGCAGCACAGGCCAGATGCTGAGGGATAAGTTGAAAGAGCAAAATTTCCAACAAAAGGTGGTAG
ATGGCCTGGCCTCTGGCATTAGCGGGGTGGTGGACCTGGCCAACCAGGCAGTGCAAAATAAGATTAACAG
TAAGCTTGATCCCCGCCCTCCCGTAGAGGAGCCTCCACCGGCCGTGGAGACAGTGTCTCCAGAGGGGCGT
GGCGAAAAGCGTCCGCGCCCCGACAGGGAAGAAACTCTGGTGACGCAAATAGACGAGCCTCCCTCGTACG
AGGAGGCACTAAAGCAAGGCCTGCCCACCACCCGTCCCATCGCGCCCATGGCTACCGGAGTGCTGGGCCA
GCACACACCCGTAACGCTGGACCTGCCTCCCCCCGCCGACACCCAGCAGAAACCTGTGCTGCCAGGCCCG
ACCGCCGTTGTTGTAACCCGTCCTAGCCGCGCGTCCCTGCGCCGCGCCGCCAGCGGTCCGCGATCGTTGC
GGCCCGTAGCCAGTGGCAACTGGCAAAGCACACTGAACAGCATCGTGGGTCTGGGGGTGCAATCCCTGAA
GCGCCGACGATGCTTCTGAATAGCTAACGTGTCGTATGTGTGTCATGTATGCGTCCATGTCGCCGCCAGA
GGAGCTGCTGAGCCGCCGCGCGCCCGCTTTCCAAGATGGCTACCCCTTCGATGATGCCGCAGTGGTCTTA
CATGCACATCTCGGGCCAGGACGCCTCGGAGTACCTGAGCCCCGGGCTGGTGCAGTTTGCCCGCGCCACC
GAGACGTACTTCAGCCTGAATAACAAGTTTAGAAACCCCACGGTGGCGCCTACGCACGACGTGACCACAG
ACCGGTCCCAGCGTTTGACGCTGCGGTTCATCCCTGTGGACCGTGAGGATACTGCGTACTCGTACAAGGC
GCGGTTCACCCTAGCTGTGGGTGATAACCGTGTGCTGGACATGGCTTCCACGTACTTTGACATCCGCGGC
GTGCTGGACAGGGGCCCTACTTTTAAGCCCTACTCTGGCACTGCCTACAACGCCCTGGCTCCCAAGGGTG
CCCCAAATCCTTGCGAATGGGATGAAGCTGCTACTGCTCTTGAAATAAACCTAGAAGAAGAGGACGATGA
CAACGAAGACGAAGTAGACGAGCAAGCTGAGCAGCAAAAAACTCACGTATTTGGGCAGGCGCCTTATTCT
GGTATAAATATTACAAAGGAGGGTATTCAAATAGGTGTCGAAGGTCAAACACCTAAATATGCCGATAAAA
CATTTCAACCTGAACCTCAAATAGGAGAATCTCAGTGGTACGAAACTGAAATTAATCATGCAGCTGGGAG
AGTCCTTAAAAAGACTACCCCAATGAAACCATGTTACGGTTCATATGCAAAACCCACAAATGAAAATGGA
GGGCAAGGCATTCTTGTAAAGCAACAAAATGGAAAGCTAGAAAGTCAAGTGGAAATGCAATTTTTCTCAA
CTACTGAGGCGACCGCAGGCAATGGTGATAACTTGACTCCTAAAGTGGTATTGTACAGTGAAGATGTAGA
TATAGAAACCCCAGACACTCATATTTCTTACATGCCCACTATTAAGGAAGGTAACTCACGAGAACTAATG
GGCCAACAATCTATGCCCAACAGGCCTAATTACATTGCTTTTAGGGACAATTTTATTGGTCTAATGTATT
ACAACAGCACGGGTAATATGGGTGTTCTGGCGGGCCAAGCATCGCAGTTGAATGCTGTTGTAGATTTGCA
AGACAGAAACACAGAGCTTTCATACCAGCTTTTGCTTGATTCCATTGGTGATAGAACCAGGTACTTTTCT
ATGTGGAATCAGGCTGTTGACAGCTATGATCCAGATGTTAGAATTATTGAAAATCATGGAACTGAAGATG
AACTTCCAAATTACTGCTTTCCACTGGGAGGTGTGATTAATACAGAGACTCTTACCAAGGTAAAACCTAA
AACAGGTCAGGAAAATGGATGGGAAAAAGATGCTACAGAATTTTCAGATAAAAATGAAATAAGAGTTGGA
AATAATTTTGCCATGGAAATCAATCTAAATGCCAACCTGTGGAGAAATTTCCTGTACTCCAACATAGCGC
TGTATTTGCCCGACAAGCTAAAGTACAGTCCTTCCAACGTAAAAATTTCTGATAACCCAAACACCTACGA
CTACATGAACAAGCGAGTGGTGGCTCCCGGGTTAGTGGACTGCTACATTAACCTTGGAGCACGCTGGTCC
CTTGACTATATGGACAACGTCAACCCATTTAACCACCACCGCAATGCTGGCCTGCGCTACCGCTCAATGT
TGCTGGGCAATGGTCGCTATGTGCCCTTCCACATCCAGGTGCCTCAGAAGTTCTTTGCCATTAAAAACCT
CCTTCTCCTGCCGGGCTCATACACCTACGAGTGGAACTTCAGGAAGGATGTTAACATGGTTCTGCAGAGC
TCCCTAGGAAATGACCTAAGGGTTGACGGAGCCAGCATTAAGTTTGATAGCATTTGCCTTTACGCCACCT
TCTTCCCCATGGCCCACAACACCGCCTCCACGCTTGAGGCCATGCTTAGAAACGACACCAACGACCAGTC
CTTTAACGACTATCTCTCCGCCGCCAACATGCTCTACCCTATACCCGCCAACGCTACCAACGTGCCCATA
TCCATCCCCTCCCGCAACTGGGCGGCTTTCCGCGGCTGGGCCTTCACGCGCCTTAAGACTAAGGAAACCC
CATCACTGGGCTCGGGCTACGACCCTTATTACACCTACTCTGGCTCTATACCCTACCTAGATGGAACCTT
TTACCTCAACCACACCTTTAAGAAGGTGGCCATTACCTTTGACTCTTCTGTCAGCTGGCCTGGCAATGAC
CGCCTGCTTACCCCCAACGAGTTTGAAATTAAGCGCTCAGTTGACGGGGAGGGTTACAACGTTGCCCAGT
GTAACATGACCAAAGACTGGTTCCTGGTACAAATGCTAGCTAACTACAACATTGGCTACCAGGGCTTCTA

Table 11 (continued) Nucleotide sequence of pAd/CMV/V5-GW/*lacZ*.PL-DEST™ (SEQ ID NO: 88).

TATCCCAGAGAGCTACAAGGACCGCATGTACTCCTTCTTTAGAAACTTCCAGCCCATGAGCCGTCAGGTG
GTGGATGATACTAAATACAAGGACTACCAACAGGTGGGCATCCTACACCAACACAACAACTCTGGATTTG
TTGGCTACCTTGCCCCCACCATGCGCGAAGGACAGGCCTACCCTGCTAACTTCCCCTATCCGCTTATAGG
CAAGACCGCAGTTGACAGCATTACCCAGAAAAAGTTTCTTTGCGATCGCACCCTTTGGCGCATCCCATTC
TCCAGTAACTTTATGTCCATGGGCGCACTCACAGACCTGGGCCAAAACCTTCTCTACGCCAACTCCGCCC
ACGCGCTAGACATGACTTTTGAGGTGGATCCCATGGACGAGCCCACCCTTCTTTATGTTTTGTTTGAAGT
CTTTGACGTGGTCCGTGTGCACCGGCCGCACCGCGGCGTCATCGAAACCGTGTACCTGCGCACGCCCTTC
TCGGCCGGCAACGCCACAACATAAAGAAGCAAGCAACATCAACAACAGCTGCCGCCATGGGCTCCAGTGA
GCAGGAACTGAAAGCCATTGTCAAAGATCTTGGTTGTGGGCCATATTTTTTGGGCACCTATGACAAGCGC
TTTCCAGGCTTTGTTTCTCCACACAAGCTCGCCTGCGCCATAGTCAATACGGCCGGTCGCGAGACTGGGG
GCGTACACTGGATGGCCTTTGCCTGGAACCCGCACTCAAAAACATGCTACCTCTTTGAGCCCTTTGGCTT
TTCTGACCAGCGACTCAAGCAGGTTTACCAGTTTGAGTACGAGTCACTCCTGCGCCGTAGCGCCATTGCT
TCTTCCCCCGACCGCTGTATAACGCTGGAAAAGTCCACCCAAAGCGTACAGGGGCCCAACTCGGCCGCCT
GTGGACTATTCTGCTGCATGTTTCTCCACGCCTTTGCCAACTGGCCCCAAACTCCCATGGATCACAACCC
CACCATGAACCTTATTACCGGGGTACCCAACTCCATGCTCAACAGTCCCCAGGTACAGCCCACCCTGCGT
CGCAACCAGGAACAGCTCTACAGCTTCCTGGAGCGCCACTCGCCCTACTTCCGCAGCCACAGTGCGCAGA
TTAGGAGCGCCACTTCTTTTTGTCACTTGAAAAACATGTAAAAATAATGTACTAGAGACACTTTCAATAA
AGGCAAATGCTTTTATTTGTACACTCTCGGGTGATTATTTACCCCCACCCTTGCCGTCTGCGCCGTTTAA
AAATCAAAGGGGTTCTGCCGCGCATCGCTATGCGCCACTGGCAGGGACACGTTGCGATACTGGTGTTTAG
TGCTCCACTTAAACTCAGGCACAACCATCCGCGGCAGCTCGGTGAAGTTTTCACTCCACAGGCTGCGCAC
CATCACCAACGCGTTTAGCAGGTCGGGCGCCGATATCTTGAAGTCGCAGTTGGGGCCTCCGCCCTGCGCG
CGCGAGTTGCGATACACAGGGTTGCAGCACTGGAACACTATCAGCGCCGGGTGGTGCACGCTGGCCAGCA
CGCTCTTGTCGGAGATCAGATCCGCGTCCAGGTCCTCCGCGTTGCTCAGGGCGAACGGAGTCAACTTTGG
TAGCTGCCTTCCCAAAAAGGGCGCGTGCCCAGGCTTTGAGTTGCACTCGCACCGTAGTGGCATCAAAAGG
TGACCGTGCCCGGTCTGGGCGTTAGGATACAGCGCCTGCATAAAAGCCTTGATCTGCTTAAAAGCCACCT
GAGCCTTTGCGCCTTCAGAGAAGAACATGCCGCAAGACTTGCCGGAAAACTGATTGGCCGGACAGGCCGC
GTCGTGCACGCAGCACCTTGCGTCGGTGTTGGAGATCTGCACCACATTTCGGCCCCACCGGTTCTTCACG
ATCTTGGCCTTGCTAGACTGCTCCTTCAGCGCGCGCTGCCCGTTTTCGCTCGTCACATCCATTTCAATCA
CGTGCTCCTTATTTATCATAATGCTTCCGTGTAGACACTTAAGCTCGCCTTCGATCTCAGCGCAGCGGTG
CAGCCACAACGCGCAGCCCGTGGGCTCGTGATGCTTGTAGGTCACCTCTGCAAACGACTGCAGGTACGCC
TGCAGGAATCGCCCCATCATCGTCACAAAGGTCTTGTTGCTGGTGAAGGTCAGCTGCAACCCGCGGTGCT
CCTCGTTCAGCCAGGTCTTGCATACGGCCGCCAGAGCTTCCACTTGGTCAGGCAGTAGTTTGAAGTTCGC
CTTTAGATCGTTATCCACGTGGTACTTGTCCATCAGCGCGCGCGCAGCCTCCATGCCCTTCTCCCACGCA
GACACGATCGGCACACTCAGCGGGTTCATCACCGTAATTTCACTTTCCGCTTCGCTGGGCTCTTCCTCTT
CCTCTTGCGTCCGCATACCACGCGCCACTGGGTCGTCTTCATTCAGCCGCCGCACTGTGCGCTTACCTCC
TTTGCCATGCTTGATTAGCACCGGTGGGTTGCTGAAACCCACCATTTGTAGCGCCACATCTTCTCTTTCT
TCCTCGCTGTCCACGATTACCTCTGGTGATGGCGGGCGCTCGGGCTTGGGAGAAGGGCGCTTCTTTTTCT
TCTTGGGCGCAATGGCCAAATCCGCCGCCGAGGTCGATGGCCGCGGGCTGGGTGTGCGCGGCACCAGCGC
GTCTTGTGATGAGTCTTCCTCGTCCTCGGACTCGATACGCCGCCTCATCCGCTTTTTTGGGGGCGCCCGG
GGAGGCGGCGGCGACGGGGACGGGGACGACACGTCCTCCATGGTTGGGGGACGTCGCGCCGCACCGCGTC
CGCGCTCGGGGGTGGTTTCGCGCTGCTCCTCTTCCCGACTGGCCATTTCCTTCTCCTATAGGCAGAAAAA
GATCATGGAGTCAGTCGAGAAGAAGGACAGCCTAACCGCCCCCTCTGAGTTCGCCACCACCGCCTCCACC
GATGCCGCCAACGCGCCTACCACCTTCCCCGTCGAGGCACCCCCGCTTGAGGAGGAGGAAGTGATTATCG
AGCAGGACCCAGGTTTTGTAAGCGAAGACGACGAGGACCGCTCAGTACCAACAGAGGATAAAAAGCAAGA
CCAGGACAACGCAGAGGCAAACGAGGAACAAGTCGGGCGGGGGGACGAAAGGCATGGCGACTACCTAGAT
GTGGGAGACGACGTGCTGTTGAAGCATCTGCAGCGCCAGTGCGCCATTATCTGCGACGCGTTGCAAGAGC
GCAGCGATGTGCCCCTCGCCATAGCGGATGTCAGCCTTGCCTACGAACGCCACCTATTCTCACCGCGCGT
ACCCCCCAAACGCCAAGAAAACGGCACATGCGAGCCCAACCCGCGCCTCAACTTCTACCCCGTATTTGCC
GTGCCAGAGGTGCTTGCCACCTATCACATCTTTTTCCAAAACTGCAAGATACCCCTATCCTGCCGTGCCA
ACCGCAGCCGAGCGGACAAGCAGCTGGCCTTGCGGCAGGGCGCTGTCATACCTGATATCGCCTCGCTCAA
CGAAGTGCCAAAAATCTTTGAGGGTCTTGGACGCGACGAGAAGCGCGCGGCAAACGCTCTGCAACAGGAA
AACAGCGAAAATGAAAGTCACTCTGGAGTGTTGGTGGAACTCGAGGGTGACAACGCGCGCCTAGCCGTAC
TAAAACGCAGCATCGAGGTCACCCACTTTGCCTACCCGGCACTTAACCTACCCCCCAAGGTCATGAGCAC
AGTCATGAGTGAGCTGATCGTGCGCCGTGCGCAGCCCCTGGAGAGGGATGCAAATTTGCAAGAACAAACA

Table 11 (continued) Nucleotide sequence of pAd/CMV/V5-GW/*lacZ*.PL-DEST™ (SEQ ID NO: 88).

GAGGAGGGCCTACCCGCAGTTGGCGACGAGCAGCTAGCGCGCTGGCTTCAAACGCGCGAGCCTGCCGACT
TGGAGGAGCGACGCAAACTAATGATGGCCGCAGTGCTCGTTACCGTGGAGCTTGAGTGCATGCAGCGGTT
CTTTGCTGACCCGGAGATGCAGCGCAAGCTAGAGGAAACATTGCACTACACCTTTCGACAGGGCTACGTA
CGCCAGGCCTGCAAGATCTCCAACGTGGAGCTCTGCAACCTGGTCTCCTACCTTGGAATTTTGCACGAAA
ACCGCCTTGGGCAAAACGTGCTTCATTCCACGCTCAAGGGCGAGGCGCGCCGCGACTACGTCCGCGACTG
CGTTTACTTATTTCTATGCTACACCTGGCAGACGGCCATGGGCGTTTGGCAGCAGTGCTTGGAGGAGTGC
AACCTCAAGGAGCTGCAGAAACTGCTAAAGCAAAACTTGAAGGACCTATGGACGGCCTTCAACGAGCGCT
CCGTGGCCGCGCACCTGGCGGACATCATTTTCCCCGAACGCCTGCTTAAAACCCTGCAACAGGGTCTGCC
AGACTTCACCAGTCAAAGCATGTTGCAGAACTTTAGGAACTTTATCCTAGAGCGCTCAGGAATCTTGCCC
GCCACCTGCTGTGCACTTCCTAGCGACTTTGTGCCCATTAAGTACCGCGAATGCCCTCCGCCGCTTTGGG
GCCACTGCTACCTTCTGCAGCTAGCCAACTACCTTGCCTACCACTCTGACATAATGGAAGACGTGAGCGG
TGACGGTCTACTGGAGTGTCACTGTCGCTGCAACCTATGCACCCCGCACCGCTCCCTGGTTTGCAATTCG
CAGCTGCTTAACGAAAGTCAAATTATCGGTACCTTTGAGCTGCAGGGTCCCTCGCCTGACGAAAAGTCCG
CGGCTCCGGGGTTGAAACTCACTCCGGGGCTGTGGACGTCGGCTTACCTTCGCAAATTTGTACCTGAGGA
CTACCACGCCCACGAGATTAGGTTCTACGAAGACCAATCCCGCCCGCCAAATGCGGAGCTTACCGCCTGC
GTCATTACCCAGGGCCACATTCTTGGCCAATTGCAAGCCATCAACAAAGCCCGCCAAGAGTTTCTGCTAC
GAAAGGGACGGGGGGTTTACTTGGACCCCCAGTCCGGCGAGGAGCTCAACCCAATCCCCCCGCCGCCGCA
GCCCTATCAGCAGCAGCCGCGGGCCCTTGCTTCCCAGGATGGCACCCAAAAAGAAGCTGCAGCTGCCGCC
GCCACCCACGGACGAGGAGGAATACTGGGACAGTCAGGCAGAGGAGGTTTTGGACGAGGAGGAGGAGGAC
ATGATGGAAGACTGGGAGAGCCTAGACGAGGAAGCTTCCGAGGTCGAAGAGGTGTCAGACGAAACACCGT
CACCCTCGGTCGCATTCCCCTCGCCGGCGCCCCAGAAATCGGCAACCGGTTCCAGCATGGCTACAACCTC
CGCTCCTCAGGCGCCGCCGGCACTGCCCGTTCGCCGACCCAACCGTAGATGGGACACCACTGGAACCAGG
GCCGGTAAGTCCAAGCAGCCGCCGCCGTTAGCCCAAGAGCAACAACAGCGCCAAGGCTACCGCTCATGGC
GCGGGCACAAGAACGCCATAGTTGCTTGCTTGCAAGACTGTGGGGGCAACATCTCCTTCGCCCGCCGCTT
TCTTCTCTACCATCACGGCGTGGCCTTCCCCCGTAACATCCTGCATTACTACCGTCATCTCTACAGCCCA
TACTGCACCGGCGGCAGCGGCAGCGGCAGCAACAGCAGCGGCCACACAGAAGCAAAGGCGACCGGATAGC
AAGACTCTGACAAAGCCCAAGAAATCCACAGCGGCGGCAGCAGCAGGAGGAGGAGCGCTGCGTCTGGCGC
CCAACGAACCCGTATCGACCCGCGAGCTTAGAAACAGGATTTTTCCCACTCTGTATGCTATATTTCAACA
GAGCAGGGGCCAAGAACAAGAGCTGAAAATAAAAAACAGGTCTCTGCGATCCCTCACCCGCAGCTGCCTG
TATCACAAAAGCGAAGATCAGCTTCGGCGCACGCTGGAAGACGCGGAGGCTCTCTTCAGTAAATACTGCG
CGCTGACTCTTAAGGACTAGTTTCGCGCCCTTTCTCAAATTTAAGCGCGAAAACTACGTCATCTCCAGCG
GCCACACCCGGCGCCAGCACCTGTCGTCAGCGCCATTATGAGCAAGGAAATTCCCACGCCCTACATGTGG
AGTTACCAGCCACAAATGGGACTTGCGGCTGGAGCTGCCCAAGACTACTCAACCCGAATAAACTACATGA
GCGCGGGACCCCACATGATATCCCGGGTCAACGGAATCCGCGCCCACCGAAACCGAATTCTCTTGGAACA
GGCGGCTATTACCACCACACCTCGTAATAACCTTAATCCCCGTAGTTGGCCCGCTGCCCTGGTGTACCAG
GAAAGTCCCGCTCCCACCACTGTGGTACTTCCCAGAGACGCCCAGGCCGAAGTTCAGATGACTAACTCAG
GGGCGCAGCTTGCGGGCGGCTTTCGTCACAGGGTGCGGTCGCCCGGGCAGGGTATAACTCACCTGACAAT
CAGAGGGCGAGGTATTCAGCTCAACGACGAGTCGGTGAGCTCCTCGCTTGGTCTCCGTCCGGACGGGACA
TTTCAGATCGGCGGCGCCGGCCGTCCTTCATTCACGCCTCGTCAGGCAATCCTAACTCTGCAGACCTCGT
CCTCTGAGCCGCGCTCTGGAGGCATTGGAACTCTGCAATTTATTGAGGAGTTTGTGCCATCGGTCTACTT
TAACCCCTTCTCGGGACCTCCCGGCCACTATCCGGATCAATTTATTCCTAACTTTGACGCGGTAAAGGAC
TCGGCGGACGGCTACGACTGAATGTTAAGTGGAGAGGCAGAGCAACTGCGCCTGAAACACCTGGTCCACT
GTCGCCGCCACAAGTGCTTTGCCCGCGACTCCGGTGAGTTTTGCTACTTTGAATTGCCCGAGGATCATAT
CGAGGGCCCGGCGCACGGCGTCCGGCTTACCGCCCAGGGAGAGCTTGCCCGTAGCCTGATTCGGGAGTTT
ACCCAGCGCCCCCTGCTAGTTGAGCGGGACAGGGGACCCTGTGTTCTCACTGTGATTTGCAACTGTCCTA
ACCTTGGATTACATCAAGATCTTTGTTGCCATCTCTGTGCTGAGTATAATAAATACAGAAATTAAAATAT
ACTGGGGCTCCTATCGCCATCCTGTAAACGCCACCGTCTTCACCCGCCCAAGCAAACCAAGGCGAACCTT
ACCTGGTACTTTTAACATCTCTCCCTCTGTGATTTACAACAGTTTCAACCCAGACGGAGTGAGTCTACGA
GAGAACCTCTCCGAGCTCAGCTACTCCATCAGAAAAAACACCACCCTCCTTACCTGCCGGGAACGTACGA
GTGCGTCACCGGCCGCTGCACCACACCTACCGCCTGACCGTAAACCAGACTTTTTCCGGACAGACCTCAA
TAACTCTGTTTACCAGAACAGGAGGTGAGCTTAGAAAACCCTTAGGGTATTAGGCCAAAGGCGCAGCTAC
TGTGGGGTTTATGAACAATTCAAGCAACTCTACGGGCTATTCTAATTCAGGTTTCTCTAGAAATGGACGG
AATTATTACAGAGCAGCGCCTGCTAGAAAGACGCAGGGCAGCGGCCGAGCAACAGCGCATGAATCAAGAG
CTCCAAGACATGGTTAACTTGCACCAGTGCAAAAGGGGTATCTTTTGTCTGGTAAAGCAGGCCAAAGTCA

Table 11 (continued) Nucleotide sequence of pAd/CMV/V5-GW/*lacZ*.PL-DEST™ (SEQ ID NO: 88).

CCTACGACAGTAATACCACCGGACACCGCCTTAGCTACAAGTTGCCAACCAAGCGTCAGAAATTGGTGGT
CATGGTGGGAGAAAAGCCCATTACCATAACTCAGCACTCGGTAGAAACCGAAGGCTGCATTCACTCACCT
TGTCAAGGACCTGAGGATCTCTGCACCCTTATTAAGACCCTGTGCGGTCTCAAAGATCTTATTCCCTTTA
ACTAATAAAAAAAAATAATAAAGCATCACTTACTTAAAATCAGTTAGCAAATTTCTGTCCAGTTTATTCA
GCAGCACCTCCTTGCCCTCCTCCCAGCTCTGGTATTGCAGCTTCCTCCTGGCTGCAAACTTTCTCCACAA
TCTAAATGGAATGTCAGTTTCCTCCTGTTCCTGTCCATCCGCACCCACTATCTTCATGTTGTTGCAGATG
AAGCGCGCAAGACCGTCTGAAGATACCTTCAACCCCGTGTATCCATATGACACGGAAACCGGTCCTCCAA
CTGTGCCTTTTCTTACTCCTCCCTTTGTATCCCCCAATGGGTTTCAAGAGAGTCCCCCTGGGGTACTCTC
TTTGCGCCTATCCGAACCTCTAGTTACCTCCAATGGCATGCTTGCGCTCAAAATGGGCAACGGCCTCTCT
CTGGACGAGGCCGGCAACCTTACCTCCCAAAATGTAACCACTGTGAGCCCACCTCTCAAAAAAACCAAGT
CAAACATAAACCTGGAAATATCTGCACCCCTCACAGTTACCTCAGAAGCCCTAACTGTGGCTGCCGCCGC
ACCTCTAATGGTCGCGGGCAACACACTCACCATGCAATCACAGGCCCCGCTAACCGTGCACGACTCCAAA
CTTAGCATTGCCACCCAAGGACCCCTCACAGTGTCAGAAGGAAAGCTAGCCCTGCAAACATCAGGCCCCC
TCACCACCACCGATAGCAGTACCCTTACTATCACTGCCTCACCCCCTCTAACTACTGCCACTGGTAGCTT
GGGCATTGACTTGAAAGAGCCCATTTATACACAAAATGGAAAACTAGGACTAAAGTACGGGGCTCCTTTG
CATGTAACAGACGACCTAAACACTTTGACCGTAGCAACTGGTCCAGGTGTGACTATTAATAATACTTCCT
TGCAAACTAAAGTTACTGGAGCCTTGGGTTTTGATTCACAAGGCAATATGCAACTTAATGTAGCAGGAGG
ACTAAGGATTGATTCTCAAAACAGACGCCTTATACTTGATGTTAGTTATCCGTTTGATGCTCAAAACCAA
CTAAATCTAAGACTAGGACAGGGCCCTCTTTTTATAAACTCAGCCCACAACTTGGATATTAACTACAACA
AAGGCCTTTACTTGTTTACAGCTTCAAACAATTCCAAAAAGCTTGAGGTTAACCTAAGCACTGCCAAGGG
GTTGATGTTTGACGCTACAGCCATAGCCATTAATGCAGGAGATGGGCTTGAATTTGGTTCACCTAATGCA
CCAAACACAAATCCCCTCAAAACAAAAATTGGCCATGGCCTAGAATTTGATTCAAACAAGGCTATGGTTC
CTAAACTAGGAACTGGCCTTAGTTTTGACAGCACAGGTGCCATTACAGTAGGAAACAAAAATAATGATAA
GCTAACTTTGTGGACCACACCAGCTCCATCTCCTAACTGTAGACTAAATGCAGAGAAAGATGCTAAACTC
ACTTTGGTCTTAACAAAATGTGGCAGTCAAATACTTGCTACAGTTTCAGTTTTGGCTGTTAAAGGCAGTT
TGGCTCCAATATCTGGAACAGTTCAAAGTGCTCATCTTATTATAAGATTTGACGAAAATGGAGTGCTACT
AAACAATTCCTTCCTGGACCCAGAATATTGGAACTTTAGAAATGGAGATCTTACTGAAGGCACAGCCTAT
ACAAACGCTGTTGGATTTATGCCTAACCTATCAGCTTATCCAAAATCTCACGGTAAAACTGCCAAAAGTA
ACATTGTCAGTCAAGTTTACTTAAACGGAGACAAAACTAAACCTGTAACACTAACCATTACACTAAACGG
TACACAGGAAACAGGAGACACAACTCCAAGTGCATACTCTATGTCATTTTCATGGGACTGGTCTGGCCAC
AACTACATTAATGAAATATTTGCCACATCCTCTTACACTTTTTCATACATTGCCCAAGAATAAAGAATCG
TTTGTGTTATGTTTCAACGTGTTTATTTTTCAATTGCAGAAAATTTCGAATCATTTTTCATTCAGTAGTA
TAGCCCCACCACCACATAGCTTATACAGATCACCGTACCTTAATCAAACTCACAGAACCCTAGTATTCAA
CCTGCCACCTCCCTCCCAACACACAGAGTACACAGTCCTTTCTCCCCGGCTGGCCTTAAAAAGCATCATA
TCATGGGTAACAGACATATTCTTAGGTGTTATATTCCACACGGTTTCCTGTCGAGCCAAACGCTCATCAG
TGATATTAATAAACTCCCCGGGCAGCTCACTTAAGTTCATGTCGCTGTCCAGCTGCTGAGCCACAGGCTG
CTGTCCAACTTGCGGTTGCTTAACGGGCGGCGAAGGAGAAGTCCACGCCTACATGGGGGTAGAGTCATAA
TCGTGCATCAGGATAGGGCGGTGGTGCTGCAGCAGCGCGCGAATAAACTGCTGCCGCCGCCGCTCCGTCC
TGCAGGAATACAACATGGCAGTGGTCTCCTCAGCGATGATTCGCACCGCCCGCAGCATAAGGCGCCTTGT
CCTCCGGGCACAGCAGCGCACCCTGATCTCACTTAAATCAGCACAGTAACTGCAGCACAGCACCACAATA
TTGTTCAAAATCCCACAGTGCAAGGCGCTGTATCCAAAGCTCATGGCGGGGACCACAGAACCCACGTGGC
CATCATACCACAAGCGCAGGTAGATTAAGTGGCGACCCCTCATAAACACGCTGGACATAAACATTACCTC
TTTTGGCATGTTGTAATTCACCACCTCCCGGTACCATATAAACCTCTGATTAAACATGGCGCCATCCACC
ACCATCCTAAACCAGCTGGCCAAAACCTGCCCGCCGGCTATACACTGCAGGGAACCGGGACTGGAACAAT
GACAGTGGAGAGCCCAGGACTCGTAACCATGGATCATCATGCTCGTCATGATATCAATGTTGGCACAACA
CAGGCACACGTGCATACACTTCCTCAGGATTACAAGCTCCTCCCGCGTTAGAACCATATCCCAGGGAACA
ACCCATTCCTGAATCAGCGTAAATCCCACACTGCAGGGAAGACCTCGCACGTAACTCACGTTGTGCATTG
TCAAAGTGTTACATTCGGGCAGCAGCGGATGATCCTCCAGTATGGTAGCGCGGGTTTCTGTCTCAAAAGG
AGGTAGACGATCCCTACTGTACGGAGTGCGCCGAGACAACCGAGATCGTGTTGGTCGTAGTGTCATGCCA
AATGGAACGCCGGACGTAGTCATATTTCCTGAAGCAAAACCAGGTGCGGGCGTGACAAACAGATCTGCGT
CTCCGGTCTCGCCGCTTAGATCGCTCTGTGTAGTAGTTGTAGTATATCCACTCTCTCAAAGCATCCAGGC
GCCCCCTGGCTTCGGGTTCTATGTAAACTCCTTCATGCGCCGCTGCCCTGATAACATCCACCACCGCAGA
ATAAGCCACACCCAGCCAACCTACACATTCGTTCTGCGAGTCACACACGGGAGGAGCGGGAAGAGCTGGA
AGAACCATGTTTTTTTTTTTATTCCAAAAGATTATCCAAAACCTCAAAATGAAGATCTATTAAGTGAACG

Table 11 (continued) Nucleotide sequence of pAd/CMV/V5-GW/*lacZ*.PL-DEST™ (SEQ ID NO: 88).

CGCTCCCCTCCGGTGGCGTGGTCAAACTCTACAGCCAAAGAACAGATAATGGCATTTGTAAGATGTTGCA
CAATGGCTTCCAAAAGGCAAACGGCCCTCACGTCCAAGTGGACGTAAAGGCTAAACCCTTCAGGGTGAAT
CTCCTCTATAAACATTCCAGCACCTTCAACCATGCCCAAATAATTCTCATCTCGCCACCTTCTCAATATA
TCTCTAAGCAAATCCCGAATATTAAGTCCGGCCATTGTAAAAATCTGCTCCAGAGCGCCCTCCACCTTCA
GCCTCAAGCAGCGAATCATGATTGCAAAAATTCAGGTTCCTCACAGACCTGTATAAGATTCAAAAGCGGA
ACATTAACAAAAATACCGCGATCCCGTAGGTCCCTTCGCAGGGCCAGCTGAACATAATCGTGCAGGTCTG
CACGGACCAGCGCGGCCACTTCCCCGCCAGGAACCTTGACAAAAGAACCCACACTGATTATGACACGCAT
ACTCGGAGCTATGCTAACCAGCGTAGCCCCGATGTAAGCTTTGTTGCATGGGCGGCGATATAAAATGCAA
GGTGCTGCTCAAAAAATCAGGCAAAGCCTCGCGCAAAAAAGAAAGCACATCGTAGTCATGCTCATGCAGA
TAAAGGCAGGTAAGCTCCGGAACCACCACAGAAAAAGACACCATTTTTCTCTCAAACATGTCTGCGGGTT
TCTGCATAAACACAAAATAAAATAACAAAAAAACATTTAAACATTAGAAGCCTGTCTTACAACAGGAAAA
ACAACCCTTATAAGCATAAGACGGACTACGGCCATGCCGGCGTGACCGTAAAAAAACTGGTCACCGTGAT
TAAAAAGCACCACCGACAGCTCCTCGGTCATGTCCGGAGTCATAATGTAAGACTCGGTAAACACATCAGG
TTGATTCACATCGGTCAGTGCTAAAAAGCGACCGAAATAGCCCGGGGGAATACATACCCGCAGGCGTAGA
GACAACATTACAGCCCCCATAGGAGGTATAACAAAATTAATAGGAGAGAAAAACACATAAACACCTGAAA
AACCCTCCTGCCTAGGCAAAATAGCACCCTCCCGCTCCAGAACAACATACAGCGCTTCCACAGCGGCAGC
CATAACAGTCAGCCTTACCAGTAAAAAAGAAAACCTATTAAAAAAACACCACTCGACACGGCACCAGCTC
AATCAGTCACAGTGTAAAAAAGGGCCAAGTGCAGAGCGAGTATATATAGGACTAAAAAATGACGTAACGG
TTAAAGTCCACAAAAAACACCCAGAAAACCGCACGCGAACCTACGCCCAGAAACGAAAGCCAAAAAACCC
ACAACTTCCTCAAATCGTCACTTCCGTTTTCCCACGTTACGTCACTTCCCATTTTAAGAAAACTACAATT
CCCAACACATACAAGTTACTCCGCCCTAAAACCTACGTCACCCGCCCCGTTCCCACGCCCCGCGCCACGT
CACAAACTCCACCCCCTCATTATCATATTGGCTTCAATCCAAAATAAGGTATATTATTGATGATGTTAAT
TAATTTAAATCCGCATGCGATATCGAGCTCTCCCGGGAATTCGGATCTGCGACGCGAGGCTGGATGGCCT
TCCCCATTATGATTCTTCTCGCTTCCGGCGGCATCGGGATGCCCGCGTTGCAGGCCATGCTGTCCAGGCA
GGTAGATGACGACCATCAGGGACAGCTTCACGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTG
CTGGCGTTTTTCCATAGGCTCCGCCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGC
GAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCC
GACCCTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCAATGCTCA
CGCTGTAGGTATCTCAGTTCGGTGTAGGTCGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTC
AGCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATCGCC
ACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAG
TGGTGGCCTAACTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCT
TCGGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAACAAACCACCGCTGGTAGCGGTGGTTTTTTTGTTTG
CAAGCAGCAGATTACGCGCAGAAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGGTCTGAC
GCTCAGTGGAACGAAAACTCACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGA
TCCTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAG
GCACCTATCTCAGCGATCTGTCTATTTCGTTCATCCATAGTTGCCTGACTCCCCGTCGTGTAGATAACTA
CGATACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACCGCGAGACCCACGCTCACCGGCTCC
AGATTTATCAGCAATAAACCAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCCTGCAACTTTATCCGCC
TCCATCCAGTCTATTAATTGTTGCCGGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGCGCAACG
TTGTTGCCATTGNTGCAGGCATCGTGGTGTCACGCTCGTCGTTTGGTATGGCTTCATTCAGCTCCGGTTC
CCAACGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAAAAAGCGGTTAGCTCCTTCGGTCCTCCG
ATCGTTGTCAGAAGTAAGTTGGCCGCAGTGTTATCACTCATGGTTATGGCAGCACTGCATAATTCTCTTA
CTGTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTG
TATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAACACGGGATAATACCGCGCCACATAGCAGAACTTTA
AAAGTGCTCATCATTGGAAAACGTTCTTCGGGGCGAAAACTCTCAAGGATCTTACCGCTGTTGAGATCCA
GTTCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTACTTTCACCAGCGTTTCTGGGTG
AGCAAAAACAGGAAGGCAAAATGCCGCAAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATACTCATA
CTCTTCCTTTTTCAATATTATTGAAGCATTTATCAGGGTTATTGTCTCATGAGCGGATACATATTTGAAT
GTATTTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGTGCCACCTGACGTCTAAGA
AACCATTATTATCATGACATTAACCTATAAAAATAGGCGTATCACGAGGCCCTTTCGTCTTCAAGGATCC
GAATTCCCGGGAGAGCTCGATATCGCATGCGGATTTAAATTAATTAA

Please amend Table 12 on pages 395-403 as follows:

Table 12: Nucleotide sequence of pIB/V5-His-DEST (SEQ ID NO: 89).

```
                          OpIE-2 pr
        ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
  1     CATGATGATA AACAATGTAT GGTGCTAATG TTGCTTCAAC AACAATTCTG
        GTACTACTAT TTGTTACATA CCACGATTAC AACGAAGTTG TTGTTAAGAC
                          OpIE-2 pr
        ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
 51     TTGAACTGTG TTTTCATGTT TGCCAACAAG CACCTTTATA CTCGGTGGCC
        AACTTGACAC AAAAGTACAA ACGGTTGTTC GTGGAAATAT GAGCCACCGG
                          OpIE-2 pr
        ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
101     TCCCCACCAC CAACTTTTTT GCACTGCAAA AAAACACGCT TTTGCACGCG
        AGGGGTGGTG GTTGAAAAAA CGTGACGTTT TTTTGTGCGA AAACGTGCGC
                          OpIE-2 pr
        ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
151     GGCCCATACA TAGTACAAAC TCTACGTTTC GTAGACTATT TTACATAAAT
        CCGGGTATGT ATCATGTTTG AGATGCAAAG CATCTGATAA AATGTATTTA
                          OpIE-2 pr
        ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
201     AGTCTACACC GTTGTATACG CTCCAAATAC ACTACCACAC ATTGAACCTT
        TCAGATGTGG CAACATATGC GAGGTTTATG TGATGGTGTG TAACTTGGAA
                          OpIE-2 pr
        ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
251     TTTGCAGTGC AAAAAAGTAC GTGTCGGCAG TCACGTAGGC CGGCCTTATC
        AAACGTCACG TTTTTTCATG CACAGCCGTC AGTGCATCCG GCCGGAATAG
                          OpIE-2 pr
        ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
301     GGGTCGCGTC CTGTCACGTA CGAATCACAT TATCGGACCG GACGAGTGTT
        CCCAGCGCAG GACAGTGCAT GCTTAGTGTA ATAGCCTGGC CTGCTCACAA
                          OpIE-2 pr
        ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
351     GTCTTATCGT GACAGGACGC CAGCTTCCTG TGTTGCTAAC CGCAGCCGGA
        CAGAATAGCA CTGTCCTGCG GTCGAAGGAC ACAACGATTG GCGTCGGCCT
                          OpIE-2 pr
        ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
401     CGCAACTCCT TATCGGAACA GGACGCGCCT CCATATCAGC CGCGCGTTAT
        GCGTTGAGGA ATAGCCTTGT CCTGCGCGGA GGTATAGTCG GCGCGCAATA
                          OpIE-2 pr
        ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
451     CTCATGCACG TGACCGGACA CGAGGCGCCC GTCCCGCTTA TCGCGCCTAT
        GAGTACGTGC ACTGGCCTGT GCTCCGCGGG CAGGGCGAAT AGCGCGGATA
                     OpIE2FOR
                ~~~~~~~~~~~~~~~~~~~~
                         OpIE-2 pr
        ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
```

Table 12 (continued) Nucleotide sequence of pIB/V5-His-DEST (SEQ ID NO: 89).

```
501   AAATACAGCC CGCAACGATC TGGTAAACAC AGTTGAACAG CATCTGTTCG
      TTTATGTCGG GCGTTGCTAG ACCATTTGTG TCAACTTGTC GTAGACAAGC
551   AATTTAAAGC TTGATATCGA ATTCCTGCAG CCCAGCGCTG GATCCTCGAT
      TTAAATTTCG AACTATAGCT TAAGGACGTC GGGTCGCGAC CTAGGAGCTA
                             attR1
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
601   CACAAGTTTG TACAAAAAAG CTGAACGAGA AACGTAAAAT GATATAAATA
      GTGTTCAAAC ATGTTTTTTC GACTTGCTCT TTGCATTTTA CTATATTTAT
                             attR1
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
651   TCAATATATT AAATTAGATT TTGCATAAAA AACAGACTAC ATAATACTGT
      AGTTATATAA TTTAATCTAA AACGTATTTT TTGTCTGATG TATTATGACA
                 attR1
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~
701   AAAACACAAC ATATCCAGTC ACTATGGCGG CCGCATTAGG CACCCCAGGC
      TTTTGTGTTG TATAGGTCAG TGATACCGCC GGCGTAATCC GTGGGGTCCG
751   TTTACACTTT ATGCTTCCGG CTCGTATAAT GTGTGGATTT TGAGTTAGGA
      AAATGTGAAA TACGAAGGCC GAGCATATTA CACACCTAAA ACTCAATCCT
                                                 Cmr
                                             ~~~~~~~~~~~~~~~~
801   TCCGTCGAGA TTTTCAGGAG CTAAGGAAGC TAAAATGGAG AAAAAAATCA
      AGGCAGCTCT AAAAGTCCTC GATTCCTTCG ATTTTACCTC TTTTTTTAGT

                       Cmr
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
851   CTGGATATAC CACCGTTGAT ATATCCCAAT GGCATCGTAA AGAACATTTT
      GACCTATATG GTGGCAACTA TATAGGGTTA CCGTAGCATT TCTTGTAAAA
                             Cmr
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
901   GAGGCATTTC AGTCAGTTGC TCAATGTACC TATAACCAGA CCGTTCAGCT
      CTCCGTAAAG TCAGTCAACG AGTTACATGG ATATTGGTCT GGCAAGTCGA
                             Cmr
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
951   GGATATTACG GCCTTTTTAA AGACCGTAAA GAAAAATAAG CACAAGTTTT
      CCTATAATGC CGGAAAAATT TCTGGCATTT CTTTTTATTC GTGTTCAAAA
                             Cmr
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
1001  ATCCGGCCTT TATTCACATT CTTGCCCGCC TGATGAATGC TCATCCGGAA
      TAGGCCGGAA ATAAGTGTAA GAACGGGCGG ACTACTTACG AGTAGGCCTT
                             Cmr
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
1051  TTCCGTATGG CAATGAAAGA CGGTGAGCTG GTGATATGGG ATAGTGTTCA
      AAGGCATACC GTTACTTTCT GCCACTCGAC CACTATACCC TATCACAAGT
                             Cmr
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
```

Table 12 (continued) Nucleotide sequence of pIB/V5-His-DEST (SEQ ID NO: 89).

```
1101   CCCTTGTTAC ACCGTTTTCC ATGAGCAAAC TGAAACGTTT TCATCGCTCT
       GGGAACAATG TGGCAAAAGG TACTCGTTTG ACTTTGCAAA AGTAGCGAGA
                               Cmr
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
1151   GGAGTGAATA CCACGACGAT TTCCGGCAGT TTCTACACAT ATATTCGCAA
       CCTCACTTAT GGTGCTGCTA AAGGCCGTCA AAGATGTGTA TATAAGCGTT
                               Cmr
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
1201   GATGTGGCGT GTTACGGTGA AAACCTGGCC TATTTCCCTA AAGGGTTTAT
       CTACACCGCA CAATGCCACT TTTGGACCGG ATAAAGGGAT TTCCCAAATA
                               Cmr
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
1251   TGAGAATATG TTTTTCGTCT CAGCCAATCC CTGGGTGAGT TTCACCAGTT
       ACTCTTATAC AAAAAGCAGA GTCGGTTAGG GACCCACTCA AAGTGGTCAA
                               Cmr
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
1301   TTGATTTAAA CGTGGCCAAT ATGGACAACT TCTTCGCCCC CGTTTTCACC
       AACTAAATTT GCACCGGTTA TACCTGTTGA AGAAGCGGGG GCAAAAGTGG
                               Cmr
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
1351   ATGGGCAAAT ATTATACGCA AGGCGACAAG GTGCTGATGC CGCTGGCGAT
       TACCCGTTTA TAATATGCGT TCCGCTGTTC CACGACTACG GCGACCGCTA
                               Cmr
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
1401   TCAGGTTCAT CATGCCGTTT GTGATGGCTT CCATGTCGGC AGAATGCTTA
       AGTCCAAGTA GTACGGCAAA CACTACCGAA GGTACAGCCG TCTTACGAAT
                            Cmr
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
1451   ATGAATTACA ACAGTACTGC GATGAGTGGC AGGGCGGGGC GTAAACGCGT
       TACTTAATGT TGTCATGACG CTACTCACCG TCCCGCCCCG CATTTGCGCA
1501   GGATCCGGCT TACTAAAAGC CAGATAACAG TATGCGTATT TGCGCGCTGA
       CCTAGGCCGA ATGATTTTCG GTCTATTGTC ATACGCATAA ACGCGCGACT
1551   TTTTTGCGGT ATAAGAATAT ATACTGATAT GTATACCCGA AGTATGTCAA
       AAAAACGCCA TATTCTTATA TATGACTATA CATATGGGCT TCATACAGTT
1601   AAAGAGGTAT GCTATGAAGC AGCGTATTAC AGTGACAGTT GACAGCGACA
       TTTCTCCATA CGATACTTCG TCGCATAATG TCACTGTCAA CTGTCGCTGT
1651   GCTATCAGTT GCTCAAGGCA TATATGATGT CAATATCTCC GGTCTGGTAA
       CGATAGTCAA CGAGTTCCGT ATATACTACA GTTATAGAGG CCAGACCATT
1701   GCACAACCAT GCAGAATGAA GCCCGTCGTC TGCGTGCCGA ACGCTGGAAA
       CGTGTTGGTA CGTCTTACTT CGGGCAGCAG ACGCACGGCT TGCGACCTTT
1751   GCGGAAAATC AGGAAGGGAT GGCTGAGGTC GCCCGGTTTA TTGAAATGAA
       CGCCTTTTAG TCCTTCCCTA CCGACTCCAG CGGGCCAAAT AACTTTACTT
                                                ccdB
                                          ~~~~~~~~~~~~~~~~
```

Table 12 (continued) Nucleotide sequence of pIB/V5-His-DEST (SEQ ID NO: 89).

```
1801   CGGCTCTTTT GCTGACGAGA ACAGGGGCTG GTGAAATGCA GTTTAAGGTT
       GCCGAGAAAA CGACTGCTCT TGTCCCCGAC CACTTTACGT CAAATTCCAA
                                   ccdB
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
1851   TACACCTATA AAAGAGAGAG CCGTTATCGT CTGTTTGTGG ATGTACAGAG
       ATGTGGATAT TTTCTCTCTC GGCAATAGCA GACAAACACC TACATGTCTC
                                   ccdB
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
1901   TGATATTATT GACACGCCCG GGCGACGGAT GGTGATCCCC CTGGCCAGTG
       ACTATAATAA CTGTGCGGGC CCGCTGCCTA CCACTAGGGG GACCGGTCAC
                                   ccdB
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
1951   CACGTCTGCT GTCAGATAAA GTCTCCCGTG AACTTTACCC GGTGGTGCAT
       GTGCAGACGA CAGTCTATTT CAGAGGGCAC TTGAAATGGG CCACCACGTA
                                   ccdB
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
2001   ATCGGGGATG AAAGCTGGCG CATGATGACC ACCGATATGG CCAGTGTGCC
       TAGCCCCTAC TTTCGACCGC GTACTACTGG TGGCTATACC GGTCACACGG
                                   ccdB
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
2051   GGTCTCCGTT ATCGGGGAAG AAGTGGCTGA TCTCAGCCAC CGCGAAAATG
       CCAGAGGCAA TAGCCCCTTC TTCACCGACT AGAGTCGGTG GCGCTTTTAC
                          ccdB
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
2101   ACATCAAAAA CGCCATTAAC CTGATGTTCT GGGGAATATA AATGTCAGGC
       TGTAGTTTTT GCGGTAATTG GACTACAAGA CCCCTTATAT TTACAGTCCG
                                                  attR2
                                             ~~~~~~~~~~~~~
2151   TCCCTTATAC ACAGCCAGTC TGCAGGTCGA CCATAGTGAC TGGATATGTT
       AGGGAATATG TGTCGGTCAG ACGTCCAGCT GGTATCACTG ACCTATACAA
                                  attR2
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
2201   GTGTTTTACA GTATTATGTA GTCTGTTTTT TATGCAAAAT CTAATTTAAT
       CACAAAATGT CATAATACAT CAGACAAAAA ATACGTTTTA GATTAAATTA
                                  attR2
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
2251   ATATTGATAT TTATATCATT TTACGTTTCT CGTTCAGCTT TCTTGTACAA
       TATAACTATA AATATAGTAA AATGCAAAGA GCAAGTCGAA AGAACATGTT
       attR2                                          V5 tag
       ~~~~~~                                      ~~~~~~~~~
2301   AGTGGTGATC GACCCGGGTC TAGAGGGCCC GCGGTTCGAA GGTAAGCCTA
       TCACCACTAG CTGGGCCCAG ATCTCCCGGG CGCCAAGCTT CCATTCGGAT
                          V5 tag
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

                                                  Poly His 6
                                                     tag
```

Table 12 (continued) Nucleotide sequence of pIB/V5-His-DEST (SEQ ID NO: 89).

```
                                                               ~~~~~~~~~
2351   TCCCTAACCC TCTCCTCGGT CTCGATTCTA CGCGTACCGG TCATCATCAC
       AGGGATTGGG AGAGGAGCCA GAGCTAAGAT GCGCATGGCC AGTAGTAGTG
       Poly His 6 tag                     OpIE-2 PolyA
       ~~~~~~~~~                     ~~~~~~~~~~~~~~~~~~~~~~~~
2401   CATCACCATT GAGTTTATCT GACTAAATCT TAGTTTGTAT TGTCATGTTT
       GTAGTGGTAA CTCAAATAGA CTGATTTAGA ATCAAACATA ACAGTACAAA
                        OpIE-2 PolyA
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
2451   TAATACAATA TGTTATGTTT AAATATGTTT TTAATAAATT TTATAAAATA
       ATTATGTTAT ACAATACAAA TTTATACAAA AATTATTTAA AATATTTTAT
                  OpIE-2 PolyA
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
2501   ATTTCAACTT TTATTGTAAC AACATTGTCC ATTTACACAC TCCTTTCAAG
       TAAAGTTGAA AATAACATTG TTGTAACAGG TAAATGTGTG AGGAAAGTTC
2551   CGCGTGGGAT CGATGCTCAC TCAAAGGCGG TAATACGGTT ATCCACAGAA
       GCGCACCCTA GCTACGAGTG AGTTTCCGCC ATTATGCCAA TAGGTGTCTT
                                            pMB1 ori
                                  ~~~~~~~~~~~~~~~~~~~~~~~~~~
2601   TCAGGGGATA ACGCAGGAAA GAACATGTGA GCAAAAGGCC AGCAAAAGGC
       AGTCCCCTAT TGCGTCCTTT CTTGTACACT CGTTTTCCGG TCGTTTTCCG
                           pMB1 ori
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
2651   CAGGAACCGT AAAAAGGCCG CGTTGCTGGC GTTTTTCCAT AGGCTCCGCC
       GTCCTTGGCA TTTTTCCGGC GCAACGACCG CAAAAAGGTA TCCGAGGCGG
                           pMB1 ori
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
2701   CCCCTGACGA GCATCACAAA AATCGACGCT CAAGTCAGAG GTGGCGAAAC
       GGGGACTGCT CGTAGTGTTT TTAGCTGCGA GTTCAGTCTC CACCGCTTTG
                           pMB1 ori
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
2751   CCGACAGGAC TATAAAGATA CCAGGCGTTT CCCCCTGGAA GCTCCCTCGT
       GGCTGTCCTG ATATTTCTAT GGTCCGCAAA GGGGGACCTT CGAGGGAGCA
                           pMB1 ori
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
2801   GCGCTCTCCT GTTCCGACCC TGCCGCTTAC CGGATACCTG TCCGCCTTTC
       CGCGAGAGGA CAAGGCTGGG ACGGCGAATG GCCTATGGAC AGGCGGAAAG
                           pMB1 ori
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
2851   TCCCTTCGGG AAGCGTGGCG CTTTCTCATA GCTCACGCTG TAGGTATCTC
       AGGGAAGCCC TTCGCACCGC GAAAGAGTAT CGAGTGCGAC ATCCATAGAG
                           pMB1 ori
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
```

Table 12 (continued) Nucleotide sequence of pIB/V5-His-DEST (SEQ ID NO: 89).

```
2901    AGTTCGGTGT AGGTCGTTCG CTCCAAGCTG GGCTGTGTGC ACGAACCCCC
        TCAAGCCACA TCCAGCAAGC GAGGTTCGAC CCGACACACG TGCTTGGGGG
                              pMB1 ori
        ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
2951    CGTTCAGCCC GACCGCTGCG CCTTATCCGG TAACTATCGT CTTGAGTCCA
        GCAAGTCGGG CTGGCGACGC GGAATAGGCC ATTGATAGCA GAACTCAGGT
                              pMB1 ori
        ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
3001    ACCCGGTAAG ACACGACTTA TCGCCACTGG CAGCAGCCAC TGGTAACAGG
        TGGGCCATTC TGTGCTGAAT AGCGGTGACC GTCGTCGGTG ACCATTGTCC
                              pMB1 ori
        ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
3051    ATTAGCAGAG CGAGGTATGT AGGCGGTGCT ACAGAGTTCT TGAAGTGGTG
        TAATCGTCTC GCTCCATACA TCCGCCACGA TGTCTCAAGA ACTTCACCAC
                              pMB1 ori
        ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
3101    GCCTAACTAC GGCTACACTA GAAGAACAGT ATTTGGTATC TGCGCTCTGC
        CGGATTGATG CCGATGTGAT CTTCTTGTCA TAAACCATAG ACGCGAGACG
                              pMB1 ori
        ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
3151    TGAAGCCAGT TACCTTCGGA AAAAGAGTTG GTAGCTCTTG ATCCGGCAAA
        ACTTCGGTCA ATGGAAGCCT TTTTCTCAAC CATCGAGAAC TAGGCCGTTT
                              pMB1 ori
        ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
3201    CAAACCACCG CTGGTAGCGG TGGTTTTTTT GTTTGCAAGC AGCAGATTAC
        GTTTGGTGGC GACCATCGCC ACCAAAAAAA CAAACGTTCG TCGTCTAATG
                             pMB1 ori
        ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
3251    GCGCAGAAAA AAAGGATCTC AAGAAGATCC TTTGATCTTT TCTACGGGGT
        CGCGTCTTTT TTTCCTAGAG TTCTTCTAGG AAACTAGAAA AGATGCCCCA
3301    CTGACGCTCA GTGGAACGAA AACTCACGTT AAGGGATTTT GGTCATGCCC
        GACTGCGAGT CACCTTGCTT TTGAGTGCAA TTCCCTAAAA CCAGTACGGG
                                    GP64 promoter
                     ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
3351    TTGTTCCGAA GGGTTGTGTC ACGTAGGCCA GATAACGGTC GGGTATATAA
        AACAAGGCTT CCCAACACAG TGCATCCGGT CTATTGCCAG CCCATATATT
                         GP64 promoter
        ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
3401    GATGCCTCAA TGCTACTAGT AAATCAGTCA CACCAAGGCT TCAATAAGGA
        CTACGGAGTT ACGATGATCA TTTAGTCAGT GTGGTTCCGA AGTTATTCCT
        GP64 promoter                                 EM7
        ~~~~~~~~~~~~~                      ~~~~~~~~~~~~~~~
3451    ACACACAAGC AAGCCCTTTG AGTCAAGGGC TGCCGGGCTG CAGCACGTGT
        TGTGTGTTCG TTCGGGAAAC TCAGTTCCCG ACGGCCCGAC GTCGTGCACA
                              EM7
        ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
```

Table 12 (continued) Nucleotide sequence of pIB/V5-His-DEST (SEQ ID NO: 89).

```
3501   TGACAATTAA TCATCGGCAT AGTATATCGG CATAGTATAA TACGACAAGG
       ACTGTTAATT AGTAGCCGTA TCATATAGCC GTATCATATT ATGCTGTTCC
                                   Blasticidin(r)
                             ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
3551   TGAGGAACTA AACCATGGCC AAGCCTTTGT CTCAAGAAGA ATCCACCCTC
       ACTCCTTGAT TTGGTACCGG TTCGGAAACA GAGTTCTTCT TAGGTGGGAG
                        Blasticidin(r)
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
3601   ATTGAAAGAG CAACGGCTAC AATCAACAGC ATCCCCATCT CTGAAGACTA
       TAACTTTCTC GTTGCCGATG TTAGTTGTCG TAGGGGTAGA GACTTCTGAT
                        Blasticidin(r)
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
3651   CAGCGTCGCC GGCGCAGCTC TCTCTAGCGA CGGCCGCATC TTCACTGGTG
       GTCGCAGCGG CCGCGTCGAG AGAGATCGCT GCCGGCGTAG AAGTGACCAC
                        Blasticidin(r)
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
3701   TCAATGTATA TCATTTTACT GGGGGACCTT GCGCAGAACT CGTGGTGCTG
       AGTTACATAT AGTAAAATGA CCCCCTGGAA CGCGTCTTGA GCACCACGAC
                        Blasticidin(r)
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
3751   GGCACTGCTG CTGCTGCGGC AGCTGGCAAC CTGACTTGTA TCGTCGCGAT
       CCGTGACGAC GACGACGCCG TCGACCGTTG GACTGAACAT AGCAGCGCTA
                        Blasticidin(r)
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
3801   CGGAAATGAG AACAGGGGCA TCTTGAGCCC CTGCGGACGG TGCCGACAGG
       GCCTTTACTC TTGTCCCCGT AGAACTCGGG GACGCCTGCC ACGGCTGTCC
                        Blasticidin(r)
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
3851   TTCTTCTCGA TCTGCATCCT GGGATCAAAG CCATAGTGAA GGACAGTGAT
       AAGAAGAGCT AGACGTAGGA CCCTAGTTTC GGTATCACTT CCTGTCACTA
                        Blasticidin(r)
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
3901   GGACAGCCGA CGGCAGTTGG GATTCGTGAA TTGCTGCCCT CTGGTTATGT
       CCTGTCGGCT GCCGTCAACC CTAAGCACTT AACGACGGGA GACCAATACA
       Blasticidin(r)
       ~~~~~~~~~~~
3951   GTGGGAGGGC TAAGCACTTC GTGGCCGAGG AGCAGGACTG ACACGTCCCG
       CACCCTCCCG ATTCGTGAAG CACCGGCTCC TCGTCCTGAC TGTGCAGGGC
4001   GGAGATCTGC ATGTCTACTA AACTCACAAA TTAGAGCTTC AATTTAATTA
       CCTCTAGACG TACAGATGAT TTGAGTGTTT AATCTCGAAG TTAAATTAAT
                                                   Amp(r)
                                             ~~~~~~~~~~~~~~~~~~
4051   TATCAGTTAT TACCCATTGA AAAAGGAAGA GTATGAGTAT TCAACATTTC
       ATAGTCAATA ATGGGTAACT TTTTCCTTCT CATACTCATA AGTTGTAAAG
                            Amp(r)
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
```

Table 12 (continued) Nucleotide sequence of pIB/V5-His-DEST (SEQ ID NO: 89).

```
4101   CGTGTCGCCC TTATTCCCTT TTTTGCGGCA TTTTGCCTTC CTGTTTTTGC
       GCACAGCGGG AATAAGGGAA AAAACGCCGT AAAACGGAAG GACAAAAACG
                             Amp(r)
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
4151   TCACCCAGAA ACGCTGGTGA AAGTAAAAGA TGCTGAAGAT CAGTTGGGTG
       AGTGGGTCTT TGCGACCACT TTCATTTTCT ACGACTTCTA GTCAACCCAC
                             Amp(r)
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
4201   CACGAGTGGG TTACATCGAA CTGGATCTCA ACAGCGGTAA GATCCTTGAG
       GTGCTCACCC AATGTAGCTT GACCTAGAGT TGTCGCCATT CTAGGAACTC
                             Amp(r)
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
4251   AGTTTTCGCC CCGAAGAACG TTTTCCAATG ATGAGCACTT TTAAAGTTCT
       TCAAAAGCGG GGCTTCTTGC AAAAGGTTAC TACTCGTGAA AATTTCAAGA
                             Amp(r)
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
4301   GCTATGTGGC GCGGTATTAT CCCGTATTGA CGCCGGGCAA GAGCAACTCG
       CGATACACCG CGCCATAATA GGGCATAACT GCGGCCCGTT CTCGTTGAGC
                             Amp(r)
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
4351   GTCGCCGCAT ACACTATTCT CAGAATGACT TGGTTGAGTA CTCACCAGTC
       CAGCGGCGTA TGTGATAAGA GTCTTACTGA ACCAACTCAT GAGTGGTCAG
                             Amp(r)
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
4401   ACAGAAAAGC ATCTTACGGA TGGCATGACA GTAAGAGAAT TATGCAGTGC
       TGTCTTTTCG TAGAATGCCT ACCGTACTGT CATTCTCTTA ATACGTCACG
                             Amp(r)
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
4451   TGCCATAACC ATGAGTGATA ACACTGCGGC CAACTTACTT CTGACAACGA
       ACGGTATTGG TACTCACTAT TGTGACGCCG GTTGAATGAA GACTGTTGCT
                             Amp(r)
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
4501   TCGGAGGACC GAAGGAGCTA ACCGCTTTTT TGCACAACAT GGGGGATCAT
       AGCCTCCTGG CTTCCTCGAT TGGCGAAAAA ACGTGTTGTA CCCCCTAGTA
                             Amp(r)
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
4551   GTAACTCGCC TTGATCGTTG GGAACCGGAG CTGAATGAAG CCATACCAAA
       CATTGAGCGG AACTAGCAAC CCTTGGCCTC GACTTACTTC GGTATGGTTT
                             Amp(r)
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
4601   CGACGAGCGT GACACCACGA TGCCTGTAGC AATGGCAACA ACGTTGCGCA
       GCTGCTCGCA CTGTGGTGCT ACGGACATCG TTACCGTTGT TGCAACGCGT
                             Amp(r)
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
```

Table 12 (continued) Nucleotide sequence of pIB/V5-His-DEST (SEQ ID NO: 89).

```
4651   AACTATTAAC TGGCGAACTA CTTACTCTAG CTTCCCGGCA ACAATTAATA
       TTGATAATTG ACCGCTTGAT GAATGAGATC GAAGGGCCGT TGTTAATTAT
                             Amp(r)
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
4701   GACTGGATGG AGGCGGATAA AGTTGCAGGA CCACTTCTGC GCTCGGCCCT
       CTGACCTACC TCCGCCTATT TCAACGTCCT GGTGAAGACG CGAGCCGGGA
                             Amp(r)
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
4751   TCCGGCTGGC TGGTTTATTG CTGATAAATC TGGAGCCGGT GAGCGTGGGT
       AGGCCGACCG ACCAAATAAC GACTATTTAG ACCTCGGCCA CTCGCACCCA
                             Amp(r)
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
4801   CTCGCGGTAT CATTGCAGCA CTGGGGCCAG ATGGTAAGCC CTCCCGTATC
       GAGCGCCATA GTAACGTCGT GACCCCGGTC TACCATTCGG GAGGGCATAG
                             Amp(r)
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
4851   GTAGTTATCT ACACGACGGG GAGTCAGGCA ACTATGGATG AACGAAATAG
       CATCAATAGA TGTGCTGCCC CTCAGTCCGT TGATACCTAC TTGCTTTATC
                        Amp(r)
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
4901   ACAGATCGCT GAGATAGGTG CCTCACTGAT TAAGCATTGG TAACTGTCAG
       TGTCTAGCGA CTCTATCCAC GGAGTGACTA ATTCGTAACC ATTGACAGTC
4951   ACCAAGTTTA CTCATATATA CTTTAGATTG ATTTAAAACT TCATTTTTAA
       TGGTTCAAAT GAGTATATAT GAAATCTAAC TAAATTTTGA AGTAAAAATT
5001   TTTAAAAGGA TCTAGGTGAA GATCCTTTTT GATAATCT
       AAATTTTCCT AGATCCACTT CTAGGAAAAA CTATTAGA
```

Please amend Table 13 on pages 404-415 as follows:

Table 13: Nucleotide sequence of the V5-His DEST cassette (SEQ ID NO: 90).

```
      ph promoter
      ~~~~~
  1   ATAAGTATTT TACTGTTTTC GTAACAGTTT TGTAATAAAA AAACCTATAA
      TATTCATAAA ATGACAAAAG CATTGTCAAA ACATTATTTT TTTGGATATT
 51   ATATTCCGGA TTATTCATAC CGTCCCACCA TCGGGCGCGG ATCCCCGGGT
      TATAAGGCCT AATAAGTATG GCAGGGTGGT AGCCCGCGCC TAGGGGCCCA
                                att R1
                 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
101   ACCGATATCA CAAGTTTGTA CAAAAAAGCT GAACGAGAAA CGTAAAATGA
      TGGCTATAGT GTTCAAACAT GTTTTTTCGA CTTGCTCTTT GCATTTTACT
                            att R1
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
151   TATAAATATC AATATATTAA ATTAGATTTT GCATAAAAAA CAGACTACAT
      ATATTTATAG TTATATAATT TAATCTAAAA CGTATTTTTT GTCTGATGTA
      att R1
      ~~~~~~~
201   AATACTGTAA AACACAACAT ATCCAGTCAC TATGGCGGCC GCTCCCTAAC
      TTATGACATT TTGTGTTGTA TAGGTCAGTG ATACCGCCGG CGAGGGATTG
251   CCACGGGGCC CGTGGCTATG GCAGGGCTTG CCGCCCCGAC GTTGGCTGCG
      GGTGCCCCGG GCACCGATAC CGTCCCGAAC GGCGGGGCTG CAACCGACGC
301   AGCCCTGGGC CTTCACCCGA ACTTGGGGGT TGGGGTGGGG AAAAGGAAGA
      TCGGGACCCG GAAGTGGGCT TGAACCCCCA ACCCCACCCC TTTTCCTTCT
351   AACGCGGGCG TATTGGTCCC AATGGGGTCT CGGTGGGGTA TCGACAGAGT
      TTGCGCCCGC ATAACCAGGG TTACCCCAGA GCCACCCCAT AGCTGTCTCA
401   GCCAGCCCTG GGACCGAACC CCGCGTTTAT GAACAAACGA CCCAACACCC
      CGGTCGGGAC CCTGGCTTGG GGCGCAAATA CTTGTTTGCT GGGTTGTGGG
451   GTGCGTTTTA TTCTGTCTTT TTATTGCCGT CATAGCGCGG GTTCCTTCCG
      CACGCAAAAT AAGACAGAAA AATAACGGCA GTATCGCGCC CAAGGAAGGC
501   GTATTGTCTC CTTCCGTGTT TCAGTTAGCC TCCCCCATCT CCCGGGCAAA
      CATAACAGAG GAAGGCACAA AGTCAATCGG AGGGGGTAGA GGGCCCGTTT
                                 ~~~~~~~~~~~~~~~~~~~~~~~~~~~
                                           tk gene
                                 N  A  E   G  M  E   R  A  F
551   CGTGCGCGCC AGGTCGCAGA TCGTCGGTAT GGAGCCTGGG GTGGTGACGT
      GCACGCGCGG TCCAGCGTCT AGCAGCCATA CCTCGGACCC CACCACTGCA
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                            tk gene
       T  R  A  L   D  C  I   T  P  I   S  G  P  T   T  V  H .
601   GGGTCTGGAC CATCCCGGAG GTAAGTTGCA GCAGGGCGTC CCGGCAGCCG
      CCCAGACCTG GTAGGGCCTC CATTCAACGT CGTCCCGCAG GGCCGTCGGC
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                            tk gene
      . T  Q  V   M  G  S  T   L  Q  L   L  A  D   R  C  G  A .
```

Table 13 (continued) Nucleotide sequence of the V5-His DEST cassette (SEQ ID NO: 90).

```
651   GCGGGCGATT GGTCGTAATC CAGGATAAAG ACATGCATGG GACGGAGGCG
      CGCCCGCTAA CCAGCATTAG GTCCTATTTC TGTACGTACC CTGCCTCCGC
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                        tk gene
      ..P  S  Q   D  Y  D   L  I  F  V   H  M  P   R  L  R
701   TTTGGCCAAG ACGTCCAAAG CCCAGGCAAA CACGTTATAC AGGTCGCCGT
      AAACCGGTTC TGCAGGTTTC GGGTCCGTTT GTGCAATATG TCCAGCGGCA
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                        tk gene
       K  A  L  V   D  L  A   W  A  F   V  N  Y  L   D  G  N ·
751   TGGGGGCCAG CAACTCGGGG GCCCGAAACA GGGTAAATAA CGTGTCCCCG
      ACCCCCGGTC GTTGAGCCCC CGGGCTTTGT CCCATTTATT GCACAGGGGC
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                        tk gene
      .P  A  L   L  E  P  A   R  F  L   T  F  L   T  D  G  I ·
801   ATATGGGGTC GTGGGCCCGC GTTGCTCTGG GGCTCGGCAC CCTGGGGCGG
      TATACCCCAG CACCCGGGCG CAACGAGACC CCGAGCCGTG GGACCCCGCC
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                        tk gene
      ..H  P  R   P  G  A   N  S  Q  P   E  A  G   Q  P  P
851   CACGGCCGCC CCCGAAAGCT GTCCCCAATC CTCCCGCCAC GACCCGCCGC
      GTGCCGGCGG GGGCTTTCGA CAGGGGTTAG GAGGGCGGTG CTGGGCGGCG
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                   tk gene
       V  A  A  G   S  L  Q   G  W  D   E  R  W  S   G  G  G ·
901   CCTGCAGATA CCGCACCGTA TTGGCAAGCA GCCCATAAAC GCGGCGAATC
      GGACGTCTAT GGCGTGGCAT AACCGTTCGT CGGGTATTTG CGCCGCTTAG
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                        tk gene
      .Q  L  Y   R  V  T  N   A  L  L   G  Y  V   R  R  I  A ·
951   GCGGCCAGCA TAGCCAGGTC AAGCCGCTCG CCGGGGCGCT GGCGTTTGGC
      CGCCGGTCGT ATCGGTCCAG TTCGGCGAGC GGCCCCGCGA CCGCAAACCG
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                        tk gene
      ..A  L  M   A  L  D   L  R  E  G   P  R  Q   R  K  A
1001  CAGGCGGTCG ATGTGTCTGT CCTCCGGAAG GGCCCCCAAC ACGATGTTTG
      GTCCGCCAGC TACACAGACA GGAGGCCTTC CCGGGGGTTG TGCTACAAAC
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                        tk gene
       L  R  D  I   H  R  D   E  P  L   A  G  L  V   I  N  T ·
1051  TGCCGGGCAA GGTCGGCGGG ATGAGGGCCA CGAACGCCAG CACGGCCTGG
      ACGGCCCGTT CCAGCCGCCC TACTCCCGGT GCTTGCGGTC GTGCCGGACC
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                        tk gene
      .G  P  L   T  P  P  I   L  A  V   F  A  L   V  A  Q  P ·
```

Table 13 (continued) Nucleotide sequence of the V5-His DEST cassette (SEQ ID NO: 90).

```
1101  GGGGTCATGC TGCCCATAAG GTATCGCGCG GCCGGGTAGC ACAGGAGGGC
      CCCCAGTACG ACGGGTATTC CATAGCGCGC CGGCCCATCG TGTCCTCCCG
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                             tk gene
      .. T  M  S   G  M  L   Y  R  A  A   P  Y  C   L  L  A
1151  GGCGATGGGA TGGCGGTCGA AGATGAGGGT GAGGGCCGGG GGCGGGGCAT
      CCGCTACCCT ACCGCCAGCT TCTACTCCCA CTCCCGGCCC CCGCCCCGTA
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                             tk gene
       A  I  P  H   R  D  F   I  L  T   L  A  P  P   P  A  H ·
1201  GTGAGCTCCC AGCCTCCCCC CCGATATGAG GAGCCAGAAC GGCGTCGGTC
      CACTCGAGGG TCGGAGGGGG GGCTATACTC CTCGGTCTTG CCGCAGCCAG
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                             tk gene
      . S  S  G   A  E  G  G   I  H  P   A  L  V   A  D  T  V ·
1251  ACGGCATAAG GCATGCCCAT TGTTATCTGG GCGCTTGTCA TTACCACCGC
      TGCCGTATTC CGTACGGGTA ACAATAGACC CGCGAACAGT AATGGTGGCG
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                             tk gene
      .. A  Y  P   M  G  M   T  I  Q  A   S  T  M   V  V  A
1301  CGCGTCCCCG GCCGATATCT CACCCTGGTC GAGGCGGTGT TGTGTGGTGT
      GCGCAGGGGC CGGCTATAGA GTGGGACCAG CTCCGCCACA ACACACCACA
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                             tk gene
       A  D  G  A   S  I  E   G  Q  D   L  R  H  Q   T  T  Y ·
1351  AGATGTTCGC GATTGTCTCG GAAGCCCCCA ACACCCGCCA GTAAGTCATC
      TCTACAAGCG CTAACAGAGC CTTCGGGGGT TGTGGGCGGT CATTCAGTAG
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                             tk gene
      . I  N  A   I  T  E  S   A  G  L   V  R  W   Y  T  M  P ·
1401  GGCTCGGGTA CGTAGACGAT ATCGTCGCGC GAACCCAGGG CCACCAGCAG
      CCGAGCCCAT GCATCTGCTA TAGCAGCGCG CTTGGGTCCC GGTGGTCGTC
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                             tk gene
      .. E  P  V   Y  V  I   D  D  R  S   G  L  A   V  L  L
1451  TTGCGTGGTG GTGGTTTTCC CCATCCCGTG GGGACCGTCT ATATAAACCC
      AACGCACCAC CACCAAAAGG GGTAGGGCAC CCCTGGCAGA TATATTTGGG
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                             tk gene
       Q  T  T  T   T  K  G   M  G  H   P  G  D  I   Y  V  R ·
1501  GCAGTAGCGT GGGCATTTTC TGCTCCAGGC GGACTTCCGT GGCTTTTTGT
      CGTCATCGCA CCCGTAAAAG ACGAGGTCCG CCTGAAGGCA CCGAAAAACA
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                             tk gene
      . L  L  T   P  M  K  Q   E  L  R   V  E  T   A  K  Q  Q ·
```

Table 13 (continued) Nucleotide sequence of the V5-His DEST cassette (SEQ ID NO: 90).

```
1551   TGCCGGCGAG GGCGCAACGC CGTACGTCGG TTGTTATGGC CGCGAGAACG
       ACGGCCGCTC CCGCGTTGCG GCATGCAGCC AACAATACCG GCGCTCTTGC
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                            tk gene
       .. R  R  P   R  L  A   T  R  R  N   N  H  G   R  S  R
1601   CGCAGCCTGG TCGAACGCAG ACGCGTGTTG ATGGCAGGGG TACGAAGCCA
       GCGTCGGACC AGCTTGCGTC TGCGCACAAC TACCGTCCCC ATGCTTCGGT
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                            tk gene
        A  A  Q  D   F  A  S   A  H  Q   H  C  P  Y   S  A  M ·
1651   TAGATCCCGT TATCAATTAC TTATACTATC CGGCGCGCAA GCGAGCGTGT
       ATCTAGGGCA ATAGTTAATG AATATGATAG GCCGCGCGTT CGCTCGCACA
       ~                                ~~~~~~~~~~~~~~~~~~~~
       .                                    ie-0 promoter
1701   GCGCCGGAGC ACAATTGATA CTGATTTACG AGTTGGGCAA ACGGGCTTTA
       CGCGGCCTCG TGTTAACTAT GACTAAATGC TCAACCCGTT TGCCCGAAAT
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                         ie-0 promoter
1751   TATAGCCTGT CCCCTCCACA GCCCTAGTGC CGTGCGCAAA GTGCCTACGT
       ATATCGGACA GGGGAGGTGT CGGGATCACG GCACGCGTTT CACGGATGCA
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                         ie-0 promoter
1801   GACCAGGCTC TCCTACGCAT ATACAATCTT ATCTCTATAG ATAAGGTTTC
       CTGGTCCGAG AGGATGCGTA TATGTTAGAA TAGAGATATC TATTCCAAAG
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                         ie-0 promoter
1851   CATATATAAA GCCTCTCGAT GGCTGAACGT GCACAGTATC GTGTTGATTT
       GTATATATTT CGGAGAGCTA CCGACTTGCA CGTGTCATAG CACAACTAAA
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                         ie-0 promoter
1901   CTGAGTGCTA ACTAACAGTT ACAATGAACC GTTTTTTTCG AGAGAATAAC
       GACTCACGAT TGATTGTCAA TGTTACTTGG CAAAAAAAGC TCTCTTATTG
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                         ie-0 promoter
1951   ATTTTTGACG CGCCAAGGAC CGGGGGCAAG GGTCGTGCCA AATCTTTGCC
       TAAAAACTGC GCGGTTCCTG GCCCCCGTTC CCAGCACGGT TTAGAAACGG
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                         ie-0 promoter
2001   AGCGCCTGCC GCCAACTCGC CGCCGTCGCC TGTTCGTCCG CCGCCAAAAT
       TCGCGGACGG CGGTTGAGCG GCGGCAGCGG ACAAGCAGGC GGCGGTTTTA
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                         ie-0 promoter
2051   CTAACATCAA ACCACCTACG CGCATCTCTC CGCCTAAACA GCCTATGTGC
       GATTGTAGTT TGGTGGATGC GCGTAGAGAG GCGGATTTGT CGGATACACG
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                         ie-0 promoter
```

Table 13 (continued) Nucleotide sequence of the V5-His DEST cassette (SEQ ID NO: 90).

```
2101   ACCTCTCCGG CCAAGCCGTT GGAGCACAGC AGCATTGTAA GTAAAAAACC
       TGGAGAGGCC GGTTCGGCAA CCTCGTGTCG TCGTAACATT CATTTTTTGG
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                         ie-0 promoter
2151   AGTCGTCAAC AGAAAAGATG GATATTTTGT GCCGCCCGAG TTTGGGAACA
       TCAGCAGTTG TCTTTTCTAC CTATAAAACA CGGCGGGCTC AAACCCTTGT
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                         ie-0 promoter
2201   AGTTTGAAGG TTTGCCCGCG TACAGCGACA AACTGGATTT CAAACAAGAG
       TCAAACTTCC AAACGGGCGC ATGTCGCTGT TTGACCTAAA GTTTGTTCTC
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                ie-0 promoter
                                                 p10 promoter
                                              ~~~~~~~~~~~~~~~~~~~~~~~~~
2251   CGCGATCTAC GTACCTGCAG GCCCGGGCTC AACCCAACAC AATATATTAT
       GCGCTAGATG CATGGACGTC CGGGCCCGAG TTGGGTTGTG TTATATAATA
                          p10 promoter
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
2301   AGTTAAATAA GAATTATTAT CAAATCATTT GTATATTAAT TAAAATACTA
       TCAATTTATT CTTAATAATA GTTTAGTAAA CATATAATTA ATTTTATGAT
              p10 promoter                            lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~           ~~~~~~~~~~~~~~
                                                M  T  M  I  T ·
2351   TACTGTAAAT TACATTTTAT TTACAATTCA CTCTAGAATG ACCATGATTA
       ATGACATTTA ATGTAAAATA AATGTTAAGT GAGATCTTAC TGGTACTAAT
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · D  S  L  A  V  V  L  Q  R  R  D  W  E  N  P  G
2401   CGGATTCACT GGCCGTCGTT TTACAACGTC GTGACTGGGA AAACCCTGGC
       GCCTAAGTGA CCGGCAGCAA AATGTTGCAG CACTGACCCT TTTGGGACCG
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        V  T  Q  L  N  R  L  A  A  H  P  P  F  A  S  W  R ·
2451   GTTACCCAAC TTAATCGCCT TGCAGCACAT CCCCCTTTCG CCAGCTGGCG
       CAATGGGTTG AATTAGCGGA ACGTCGTGTA GGGGGAAAGC GGTCGACCGC
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       ·N  S  E  E  A  R  T  D  R  P  S  Q  Q  L  R  S  L ·
2501   TAATAGCGAA GAGGCCCGCA CCGATCGCCC TTCCCAACAG TTGCGCAGCC
       ATTATCGCTT CTCCGGGCGT GGCTAGCGGG AAGGGTTGTC AACGCGTCGG
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · N  G  E  W  R  F  A  W  F  P  A  P  E  A  V  P
```

Table 13 (continued) Nucleotide sequence of the V5-His DEST cassette (SEQ ID NO: 90).

```
2551   TGAATGGCGA ATGGCGCTTT GCCTGGTTTC CGGCACCAGA AGCGGTGCCG
       ACTTACCGCT TACCGCGAAA CGGACCAAAG GCCGTGGTCT TCGCCACGGC
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                                   Bsu36I
                                   ~~~~~~~~
        E  S  W  L   E  C  D   L  P  E   A  D  T  V   V  V  P ·
2601   GAAAGCTGGC TGGAGTGCGA TCTTCCTGAG GCCGATACTG TCGTCGTCCC
       CTTTCGACCG ACCTCACGCT AGAAGGACTC CGGCTATGAC AGCAGCAGGG
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · S  N  W   Q  M  H  G   Y  D  A   P  I  Y   T  N  V  T ·
2651   CTCAAACTGG CAGATGCACG GTTACGATGC GCCCATCTAC ACCAACGTAA
       GAGTTTGACC GTCTACGTGC CAATGCTACG CGGGTAGATG TGGTTGCATT
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       ·  Y  P  I   T  V  N   P  P  F  V   P  T  E   N  P  T
2701   CCTATCCCAT TACGGTCAAT CCGCCGTTTG TTCCCACGGA GAATCCGACG
       GGATAGGGTA ATGCCAGTTA GGCGGCAAAC AAGGGTGCCT CTTAGGCTGC
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        G  C  Y  S   L  T  F   N  V  D   E  S  W  L   Q  E  G ·
2751   GGTTGTTACT CGCTCACATT TAATGTTGAT GAAAGCTGGC TACAGGAAGG
       CCAACAATGA GCGAGTGTAA ATTACAACTA CTTTCGACCG ATGTCCTTCC
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · Q  T  R   I  I  F  D   G  V  N   S  A  F   H  L  W  C ·
2801   CCAGACGCGA ATTATTTTTG ATGGCGTTAA CTCGGCGTTT CATCTGTGGT
       GGTCTGCGCT TAATAAAAAC TACCGCAATT GAGCCGCAAA GTAGACACCA
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       ·  N  G  R   W  V  G   Y  G  Q  D   S  R  L   P  S  E
2851   GCAACGGGCG CTGGGTCGGT TACGGCCAGG ACAGTCGTTT GCCGTCTGAA
       CGTTGCCCGC GACCCAGCCA ATGCCGGTCC TGTCAGCAAA CGGCAGACTT
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        F  D  L  S   A  F  L   R  A  G   E  N  R  L   A  V  M ·
2901   TTTGACCTGA GCGCATTTTT ACGCGCCGGA GAAAACCGCC TCGCGGTGAT
       AAACTGGACT CGCGTAAAAA TGCGCGGCCT CTTTTGGCGG AGCGCCACTA
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · V  L  R   W  S  D  G   S  Y  L   E  D  Q   D  M  W  R ·
```

Table 13 (continued) Nucleotide sequence of the V5-His DEST cassette (SEQ ID NO: 90).

```
2951   GGTGCTGCGT TGGAGTGACG GCAGTTATCT GGAAGATCAG GATATGTGGC
       CCACGACGCA ACCTCACTGC CGTCAATAGA CCTTCTAGTC CTATACACCG
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · M  S  G   I  F  R   D  V  S  L   L  H  K   P  T  T
3001   GGATGAGCGG CATTTTCCGT GACGTCTCGT TGCTGCATAA ACCGACTACA
       CCTACTCGCC GTAAAAGGCA CTGCAGAGCA ACGACGTATT TGGCTGATGT
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        Q  I  S  D   F  H  V   A  T  R   F  N  D  D   F  S  R ·
3051   CAAATCAGCG ATTTCCATGT TGCCACTCGC TTTAATGATG ATTTCAGCCG
       GTTTAGTCGC TAAAGGTACA ACGGTGAGCG AAATTACTAC TAAAGTCGGC
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · A  V  L   E  A  E  V   Q  M  C   G  E  L   R  D  Y  L ·
3101   CGCTGTACTG GAGGCTGAAG TTCAGATGTG CGGCGAGTTG CGTGACTACC
       GCGACATGAC CTCCGACTTC AAGTCTACAC GCCGCTCAAC GCACTGATGG
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · R  V  T   V  S  L   W  Q  G  E   T  Q  V   A  S  G
3151   TACGGGTAAC AGTTTCTTTA TGGCAGGGTG AAACGCAGGT CGCCAGCGGC
       ATGCCCATTG TCAAAGAAAT ACCGTCCCAC TTTGCGTCCA GCGGTCGCCG
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        T  A  P  F   G  G  E   I  I  D   E  R  G  G   Y  A  D ·
3201   ACCGCGCCTT TCGGCGGTGA AATTATCGAT GAGCGTGGTG GTTATGCCGA
       TGGCGCGGAA AGCCGCCACT TTAATAGCTA CTCGCACCAC CAATACGGCT
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · R  V  T   L  R  L  N   V  E  N   P  K  L   W  S  A  E ·
3251   TCGCGTCACA CTACGTCTGA ACGTCGAAAA CCCGAAACTG TGGAGCGCCG
       AGCGCAGTGT GATGCAGACT TGCAGCTTTT GGGCTTTGAC ACCTCGCGGC
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · I  P  N   L  Y  R   A  V  V  E   L  H  T   A  D  G
3301   AAATCCCGAA TCTCTATCGT GCGGTGGTTG AACTGCACAC CGCCGACGGC
       TTTAGGGCTT AGAGATAGCA CGCCACCAAC TTGACGTGTG GCGGCTGCCG
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        T  L  I  E   A  E  A · C  D  V   G  F  R  E   V  R  I ·
3351   ACGCTGATTG AAGCAGAAGC CTGCGATGTC GGTTTCCGCG AGGTGCGGAT
       TGCGACTAAC TTCGTCTTCG GACGCTACAG CCAAAGGCGC TCCACGCCTA
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · E  N  G   L  L  L  L   N  G  K   P  L  L   I  R  G  V ·
```

Table 13 (continued) Nucleotide sequence of the V5-His DEST cassette (SEQ ID NO: 90).

```
3401  TGAAAATGGT CTGCTGCTGC TGAACGGCAA GCCGTTGCTG ATTCGAGGCG
      ACTTTTACCA GACGACGACG ACTTGCCGTT CGGCAACGAC TAAGCTCCGC
                               lacZ
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
      · N  R  H   E  H  H   P  L  H  G   Q  V  M   D  E  Q
3451  TTAACCGTCA CGAGCATCAT CCTCTGCATG GTCAGGTCAT GGATGAGCAG
      AATTGGCAGT GCTCGTAGTA GGAGACGTAC CAGTCCAGTA CCTACTCGTC
                               lacZ
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       T  M  V  Q   D  I  L   L  M  K   Q  N  N  F   N  A  V ·
3501  ACGATGGTGC AGGATATCCT GCTGATGAAG CAGAACAACT TTAACGCCGT
      TGCTACCACG TCCTATAGGA CGACTACTTC GTCTTGTTGA AATTGCGGCA
                               lacZ
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
      · R  C  S   H  Y  P  N   H  P  L   W  Y  T   L  C  D  R ·
3551  GCGCTGTTCG CATTATCCGA ACCATCCGCT GTGGTACACG CTGTGCGACC
      CGCGACAAGC GTAATAGGCT TGGTAGGCGA CACCATGTGC GACACGCTGG
                               lacZ
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
      · Y  G  L   Y  V  V   D  E  A  N   I  E  T   H  G  M
3601  GCTACGGCCT GTATGTGGTG GATGAAGCCA ATATTGAAAC CCACGGCATG
      CGATGCCGGA CATACACCAC CTACTTCGGT TATAACTTTG GGTGCCGTAC
                               lacZ
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       V  P  M  N   R  L  T   D  D  P   R  W  L  P   A  M  S ·
3651  GTGCCAATGA ATCGTCTGAC CGATGATCCG CGCTGGCTAC CGGCGATGAG
      CACGGTTACT TAGCAGACTG GCTACTAGGC GCGACCGATG GCCGCTACTC
                               lacZ
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
      · E  R  V   T  R  M  V   Q  R  D   R  N  H   P  S  V  I ·
3701  CGAACGCGTA ACGCGAATGG TGCAGCGCGA TCGTAATCAC CCGAGTGTGA
      GCTTGCGCAT TGCGCTTACC ACGTCGCGCT AGCATTAGTG GGCTCACACT
                               lacZ
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
      · I  W  S   L  G  N   E  S  G  H   G  A  N   H  D  A
3751  TCATCTGGTC GCTGGGGAAT GAATCAGGCC ACGGCGCTAA TCACGACGCG
      AGTAGACCAG CGACCCCTTA CTTAGTCCGG TGCCGCGATT AGTGCTGCGC
                               lacZ
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       L  Y  R  W   I  K  S   V  D  P   S  R  P  V   Q  Y  E ·
3801  CTGTATCGCT GGATCAAATC TGTCGATCCT TCCCGCCCGG TGCAGTATGA
      GACATAGCGA CCTAGTTTAG ACAGCTAGGA AGGGCGGGCC ACGTCATACT
                               lacZ
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
      · G  G  G   A  D  T  T   A  T  D   I  I  C   P  M  Y  A ·
```

Table 13 (continued) Nucleotide sequence of the V5-His DEST cassette (SEQ ID NO: 90).

```
3851  AGGCGGCGGA GCCGACACCA CGGCCACCGA TATTATTTGC CCGATGTACG
      TCCGCCGCCT CGGCTGTGGT GCCGGTGGCT ATAATAAACG GGCTACATGC
                               lacZ
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
      · R  V  D   E  D  Q   P  F  P  A   V  P  K   W  S  I
3901  CGCGCGTGGA TGAAGACCAG CCCTTCCCGG CTGTGCCGAA ATGGTCCATC
      GCGCGCACCT ACTTCTGGTC GGGAAGGGCC GACACGGCTT TACCAGGTAG
                               lacZ
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       K  K  W  L   S  L  P   G  E  T   R  P  L  I   L  C  E ·
3951  AAAAAATGGC TTTCGCTACC TGGAGAGACG CGCCCGCTGA TCCTTTGCGA
      TTTTTTACCG AAAGCGATGG ACCTCTCTGC GCGGGCGACT AGGAAACGCT
                               lacZ
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
      · Y  A  H   A  M  G  N   S  L  G   G  F  A   K  Y  W  Q ·
4001  ATACGCCCAC GCGATGGGTA ACAGTCTTGG CGGTTTCGCT AAATACTGGC
      TATGCGGGTG CGCTACCCAT TGTCAGAACC GCCAAAGCGA TTTATGACCG
                               lacZ
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
      · A  F  R   Q  Y  P   R  L  Q  G   G  F  V   W  D  W
4051  AGGCGTTTCG TCAGTATCCC CGTTTACAGG GCGGCTTCGT CTGGGACTGG
      TCCGCAAAGC AGTCATAGGG GCAAATGTCC CGCCGAAGCA GACCCTGACC
                               lacZ
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       V  D  Q  S   L  I  K   Y  D  E   N  G  N  P   W  S  A ·
4101  GTGGATCAGT CGCTGATTAA ATATGATGAA AACGGCAACC CGTGGTCGGC
      CACCTAGTCA GCGACTAATT TATACTACTT TTGCCGTTGG GCACCAGCCG
                               lacZ
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
      · Y  G  G   D  F  G  D   T  P  N   D  R  Q   F  C  M  N ·
4151  TTACGGCGGT GATTTTGGCG ATACGCCGAA CGATCGCCAG TTCTGTATGA
      AATGCCGCCA CTAAAACCGC TATGCGGCTT GCTAGCGGTC AAGACATACT
                               lacZ
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
      · G  L  V   F  A  D   R  T  P  H   P  A  L   T  E  A
4201  ACGGTCTGGT CTTTGCCGAC CGCACGCCGC ATCCAGCGCT GACGGAAGCA
      TGCCAGACCA GAAACGGCTG GCGTGCGGCG TAGGTCGCGA CTGCCTTCGT
                               lacZ
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       K  H  Q  Q   Q  F  F   Q  F  R   L  S  G  Q   T  I  E ·
4251  AAACACCAGC AGCAGTTTTT CCAGTTCCGT TTATCCGGGC AAACCATCGA
      TTTGTGGTCG TCGTCAAAAA GGTCAAGGCA AATAGGCCCG TTTGGTAGCT
                               lacZ
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
      · V  T  S   E  Y  L  F   R  H  S   D  N  E   L  L  H  W ·
```

Table 13 (continued) Nucleotide sequence of the V5-His DEST cassette (SEQ ID NO: 90).

```
4301   AGTGACCAGC GAATACCTGT TCCGTCATAG CGATAACGAG CTCCTGCACT
       TCACTGGTCG CTTATGGACA AGGCAGTATC GCTATTGCTC GAGGACGTGA
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · M  V  A   L  D  G   K  P  L  A   S  G  E   V  P  L
4351   GGATGGTGGC GCTGGATGGT AAGCCGCTGG CAAGCGGTGA AGTGCCTCTG
       CCTACCACCG CGACCTACCA TTCGGCGACC GTTCGCCACT TCACGGAGAC
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        D  V  A  P   Q  G  K   Q  L  I   E  L  P  E   L  P  Q ·
4401   GATGTCGCTC CACAAGGTAA ACAGTTGATT GAACTGCCTG AACTACCGCA
       CTACAGCGAG GTGTTCCATT TGTCAACTAA CTTGACGGAC TTGATGGCGT
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · P  E  S   A  G  Q  L   W  L  T   V  R  V   V  Q  P  N ·
4451   GCCGGAGAGC GCCGGGCAAC TCTGGCTCAC AGTACGCGTA GTGCAACCGA
       CGGCCTCTCG CGGCCCGTTG AGACCGAGTG TCATGCGCAT CACGTTGGCT
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · A  T  A   W  S  E   A  G  H  I   S  A  W   Q  Q  W
4501   ACGCGACCGC ATGGTCAGAA GCCGGGCACA TCAGCGCCTG GCAGCAGTGG
       TGCGCTGGCG TACCAGTCTT CGGCCCGTGT AGTCGCGGAC CGTCGTCACC
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        R  L  A  E   N  L  S   V  T  L   P  A  A  S   H  A  I ·
4551   CGTCTGGCGG AAAACCTCAG TGTGACGCTC CCCGCCGCGT CCCACGCCAT
       GCAGACCGCC TTTTGGAGTC ACACTGCGAG GGGCGGCGCA GGGTGCGGTA
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · P  H  L   T  T  S  E   M  D  F   C  I  E   L  G  N  K ·
4601   CCCGCATCTG ACCACCAGCG AAATGGATTT TTGCATCGAG CTGGGTAATA
       GGGCGTAGAC TGGTGGTCGC TTTACCTAAA AACGTAGCTC GACCCATTAT
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · R  W  Q   F  N  R   Q  S  G  F   L  S  Q   M  W  I
4651   AGCGTTGGCA ATTTAACCGC CAGTCAGGCT TTCTTTCACA GATGTGGATT
       TCGCAACCGT TAAATTGGCG GTCAGTCCGA AAGAAAGTGT CTACACCTAA
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        G  D  K  K   Q  L  L   T  P  L   R  D  Q  F   T  R  A ·
4701   GGCGATAAAA AACAACTGCT GACGCCGCTG CGCGATCAGT TCACCCGTGC
       CCGCTATTTT TTGTTGACGA CTGCGGCGAC GCGCTAGTCA AGTGGGCACG
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · P  L  D   N  D  I  G   V  S  E   A  T  R   I  D  P  N ·
```

Table 13 (continued) Nucleotide sequence of the V5-His DEST cassette (SEQ ID NO: 90).

```
4751   ACCGCTGGAT AACGACATTG GCGTAAGTGA AGCGACCCGC ATTGACCCTA
       TGGCGACCTA TTGCTGTAAC CGCATTCACT TCGCTGGGCG TAACTGGGAT
                            lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · A  W  V   E  R  W   K  A  A  G   H  Y  Q   A  E  A
4801   ACGCCTGGGT CGAACGCTGG AAGGCGGCGG GCCATTACCA GGCCGAAGCA
       TGCGGACCCA GCTTGCGACC TTCCGCCGCC CGGTAATGGT CCGGCTTCGT
                            lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        A  L  L  Q   C  T  A   D  T  L   A  D  A  V   L  I  T ·
4851   GCGTTGTTGC AGTGCACGGC AGATACACTT GCTGATGCGG TGCTGATTAC
       CGCAACAACG TCACGTGCCG TCTATGTGAA CGACTACGCC ACGACTAATG
                            lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · T  A  H   A  W  Q  H   Q  G  K   T  L  F   I  S  R  K ·
4901   GACCGCTCAC GCGTGGCAGC ATCAGGGGAA AACCTTATTT ATCAGCCGGA
       CTGGCGAGTG CGCACCGTCG TAGTCCCCTT TTGGAATAAA TAGTCGGCCT
                            lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       ·  T  Y  R   I  D  G   S  G  Q  M   A  I  T   V  D  V
4951   AAACCTACCG GATTGATGGT AGTGGTCAAA TGGCGATTAC CGTTGATGTT
       TTTGGATGGC CTAACTACCA TCACCAGTTT ACCGCTAATG GCAACTACAA
                            lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        E  V  A  S   D  T  P   H  P  A   R  I  G  L   N  C  Q ·
5001   GAAGTGGCGA GCGATACACC GCATCCGGCG CGGATTGGCC TGAACTGCCA
       CTTCACCGCT CGCTATGTGG CGTAGGCCGC GCCTAACCGG ACTTGACGGT
                            lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · L  A  Q   V  A  E  R   V  N  W   L  G  L   G  P  Q  E ·
5051   GCTGGCGCAG GTAGCAGAGC GGGTAAACTG GCTCGGATTA GGGCCGCAAG
       CGACCGCGTC CATCGTCTCG CCCATTTGAC CGAGCCTAAT CCCGGCGTTC
                            lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       ·  N  Y  P   D  R  L   T  A  A  C   F  D  R   W  D  L
5101   AAAACTATCC CGACCGCCTT ACTGCCGCCT GTTTTGACCG CTGGGATCTG
       TTTTGATAGG GCTGGCGGAA TGACGGCGGA CAAAACTGGC GACCCTAGAC
                            lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        P  L  S  D   M  Y  T   P  Y  V   F  P  S  E   N  G  L ·
5151   CCATTGTCAG ACATGTATAC CCCGTACGTC TTCCCGAGCG AAAACGGTCT
       GGTAACAGTC TGTACATATG GGGCATGCAG AAGGGCTCGC TTTTGCCAGA
                            lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · R  C  G   T  R  E  L   N  Y  G   P  H  Q   W  R  G  D ·
```

Table 13 (continued) Nucleotide sequence of the V5-His DEST cassette (SEQ ID NO: 90).

```
5201   GCGCTGCGGG ACGCGCGAAT TGAATTATGG CCCACACCAG TGGCGCGGCG
       CGCGACGCCC TGCGCGCTTA ACTTAATACC GGGTGTGGTC ACCGCGCCGC
                                   lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · F  Q  F   N  I  S   R  Y  S  Q   Q  Q  L   M  E  T
5251   ACTTCCAGTT CAACATCAGC CGCTACAGTC AACAGCAACT GATGGAAACC
       TGAAGGTCAA GTTGTAGTCG GCGATGTCAG TTGTCGTTGA CTACCTTTGG
                                   lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        S  H  R  H   L  L  H   A  E  E   G  T  W  L   N  I  D ·
5301   AGCCATCGCC ATCTGCTGCA CGCGGAAGAA GGCACATGGC TGAATATCGA
       TCGGTAGCGG TAGACGACGT GCGCCTTCTT CCGTGTACCG ACTTATAGCT
                                   lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · G  F  H   M  G  I  G   G  D  D   S  W  S   P  S  V  S ·
5351   CGGTTTCCAT ATGGGGATTG GTGGCGACGA CTCCTGGAGC CCGTCAGTAT
       GCCAAAGGTA TACCCCTAAC CACCGCTGCT GAGGACCTCG GGCAGTCATA
                                   lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       ·  A  E  F   Q  L  S   A  G  R  Y   H  Y  Q   L  V  W
5401   CGGCGGAATT CCAGCTGAGC GCCGGTCGCT ACCATTACCA GTTGGTCTGG
       GCCGCCTTAA GGTCGACTCG CGGCCAGCGA TGGTAATGGT CAACCAGACC
         lacZ                                  AttR2
       ~~~~~~~~~                     ~~~~~~~~~~~~~~~~~~~~~~~~~
        C  Q  K
5451   TGTCAAAAAT AATGACTGCA GGTCGACCAT AGTGACTGGA TATGTTGTGT
       ACAGTTTTTA TTACTGACGT CCAGCTGGTA TCACTGACCT ATACAACACA
                                  AttR2
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
5501   TTTACAGTAT TATGTAGTCT GTTTTTTATG CAAAATCTAA TTTAATATAT
       AAATGTCATA ATACATCAGA CAAAAAATAC GTTTTAGATT AAATTATATA
                                  AttR2
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
5551   TGATATTTAT ATCATTTTAC GTTTCTCGTT CAGCTTTCTT GTACAAAGTG
       ACTATAAATA TAGTAAAATG CAAAGAGCAA GTCGAAAGAA CATGTTTCAC
       AttR2                                V5/His
       ~~                     ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                               G  K  P   I  P  N  P   L  L  G ·
5601   GTGAGAATGA ATGAAGATCT GGGGAAGCCT ATCCCTAACC CTCTCCTCGG
       CACTCTTACT TACTTCTAGA CCCCTTCGGA TAGGGATTGG GAGAGGAGCC
                        V5/His
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · L  D  S   T  R  T  G   H  H  H   H  H  H
5651   TCTCGATTCT ACGCGTACCG GTCATCATCA CCATCACCAT TGA
       AGAGCTAAGA TGCGCATGGC CAGTAGTAGT GGTAGTGGTA ACT
```

Please amend Table 14 on pages 416-428 as follows:

Table 14: Nucleotide sequence of the Mel/V5-His DEST cassette <u>(SEQ ID NO: 94)</u>.

```
     ph promoter
     ~~~~~
  1  ATAAGTATTT TACTGTTTTC GTAACAGTTT TGTAATAAAA AAACCTATAA
     TATTCATAAA ATGACAAAAG CATTGTCAAA ACATTATTTT TTTGGATATT
 51  ATATTCCGGA TTATTCATAC CGTCCCACCA TCGGGCGCGG ATCCTATAAA
     TATAAGGCCT AATAAGTATG GCAGGGTGGT AGCCCGCGCC TAGGATATTT
                       Melittin signal
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
      M  K  F   L  V  N  V   A  L  V   F  M  V   V  Y  I  S ·
101  TATGAAATTC TTAGTCAACG TTGCCCTTGT TTTTATGGTC GTATACATTT
     ATACTTTAAG AATCAGTTGC AACGGGAACA AAAATACCAG CATATGTAAA
     Melittin signal                           attR1
     ~~~~~~~~~~~~~~~                ~~~~~~~~~~~~~~~~~~~~~~~
     ·  Y  I  Y   A
151  CTTACATCTA TGCGGCATGG TCGAATCAAA CAAGTTTGTA CAAAAAAGCT
     GAATGTAGAT ACGCCGTACC AGCTTAGTTT GTTCAAACAT GTTTTTTCGA
                           attR1
     ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
201  GAACGAGAAA CGTAAAATGA TATAAATATC AATATATTAA ATTAGATTTT
     CTTGCTCTTT GCATTTTACT ATATTTATAG TTATATAATT TAATCTAAAA
                attR1
     ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
251  GCATAAAAAA CAGACTACAT AATACTGTAA AACACAACAT ATCCAGTCAC
     CGTATTTTTT GTCTGATGTA TTATGACATT TTGTGTTGTA TAGGTCAGTG
301  TATGGCGGCC GCTCCCTAAC CCACGGGGCC CGTGGCTATG GCAGGGCTTG
     ATACCGCCGG CGAGGGATTG GGTGCCCCGG GCACCGATAC CGTCCCGAAC
351  CCGCCCCGAC GTTGGCTGCG AGCCCTGGGC CTTCACCCGA ACTTGGGGGT
     GGCGGGGCTG CAACCGACGC TCGGGACCCG GAAGTGGGCT TGAACCCCCA
401  TGGGGTGGGG AAAAGGAAGA AACGCGGGCG TATTGGTCCC AATGGGGTCT
     ACCCCACCCC TTTTCCTTCT TTGCGCCCGC ATAACCAGGG TTACCCCAGA
451  CGGTGGGGTA TCGACAGAGT GCCAGCCCTG GGACCGAACC CCGCGTTTAT
     GCCACCCCAT AGCTGTCTCA CGGTCGGGAC CCTGGCTTGG GGCGCAAATA
501  GAACAAACGA CCCAACACCC GTGCGTTTTA TTCTGTCTTT TTATTGCCGT
     CTTGTTTGCT GGGTTGTGGG CACGCAAAAT AAGACAGAAA AATAACGGCA
551  CATAGCGCGG GTTCCTTCCG GTATTGTCTC CTTCCGTGTT TCAGTTAGCC
     GTATCGCGCC CAAGGAAGGC CATAACAGAG GAAGGCACAA AGTCAATCGG
                                                   ~~~
                                                 tk gene
                                                  N  A  E ·
601  TCCCCCATCT CCCGGGCAAA CGTGCGCGCC AGGTCGCAGA TCGTCGGTAT
     AGGGGGTAGA GGGCCCGTTT GCACGCGCGG TCCAGCGTCT AGCAGCCATA
     ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                              tk gene
     .. G  M  E   R  A  F   T  R  A  L   D  C  I   T  P  I
```

Table 14 (continued) Nucleotide sequence of the Mel/V5-His DEST cassette (SEQ ID NO: 94).

```
651   GGAGCCTGGG GTGGTGACGT GGGTCTGGAC CATCCCGGAG GTAAGTTGCA
      CCTCGGACCC CACCACTGCA CCCAGACCTG GTAGGGCCTC CATTCAACGT
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                           tk gene
       S  G  P  T   T  V  H   T  Q  V   M  G  S  T   L  Q  L ·
701   GCAGGGCGTC CCGGCAGCCG GCGGGCGATT GGTCGTAATC CAGGATAAAG
      CGTCCCGCAG GGCCGTCGGC CGCCCGCTAA CCAGCATTAG GTCCTATTTC
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                           tk gene
      . L  A  D   R  C  G  A   P  S  Q   D  Y  D   L  I  F  V ·
751   ACATGCATGG GACGGAGGCG TTTGGCCAAG ACGTCCAAAG CCCAGGCAAA
      TGTACGTACC CTGCCTCCGC AAACCGGTTC TGCAGGTTTC GGGTCCGTTT
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                           tk gene
      .. H  M  P   R  L  R   K  A  L  V   D  L  A   W  A  F
801   CACGTTATAC AGGTCGCCGT TGGGGGCCAG CAACTCGGGG GCCCGAAACA
      GTGCAATATG TCCAGCGGCA ACCCCCGGTC GTTGAGCCCC CGGGCTTTGT
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                           tk gene
       V  N  Y  L   D  G  N   P  A  L   L  E  P  A   R  F  L ·
851   GGGTAAATAA CGTGTCCCCG ATATGGGGTC GTGGGCCCGC GTTGCTCTGG
      CCCATTTATT GCACAGGGGC TATACCCCAG CACCCGGGCG CAACGAGACC
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                           tk gene
      . T  F  L   T  D  G  I   H  P  R   P  G  A   N  S  Q  P ·
901   GGCTCGGCAC CCTGGGGCGG CACGGCCGCC CCCGAAAGCT GTCCCCAATC
      CCGAGCCGTG GGACCCCGCC GTGCCGGCGG GGGCTTTCGA CAGGGGTTAG
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                           tk gene
      .. E  A  G   Q  P  P   V  A  A  G   S  L  Q   G  W  D
951   CTCCCGCCAC GACCCGCCGC CCTGCAGATA CCGCACCGTA TTGGCAAGCA
      GAGGGCGGTG CTGGGCGGCG GGACGTCTAT GGCGTGGCAT AACCGTTCGT
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                           tk gene
       E  R  W  S   G  G  G   Q  L  Y   R  V  T  N   A  L  L ·
1001  GCCCATAAAC GCGGCGAATC GCGGCCAGCA TAGCCAGGTC AAGCCGCTCG
      CGGGTATTTG CGCCGCTTAG CGCCGGTCGT ATCGGTCCAG TTCGGCGAGC
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                           tk gene
      . G  Y  V   R  R  I  A   A  L  M   A  L  D   L  R  E  G ·
1051  CCGGGGCGCT GGCGTTTGGC CAGGCGGTCG ATGTGTCTGT CCTCCGGAAG
      GGCCCCGCGA CCGCAAACCG GTCCGCCAGC TACACAGACA GGAGGCCTTC
      ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                           tk gene
      .. P  R  Q   R  K  A   L  R  D  I   H  R  D   E  P  L
```

Table 14 (continued) Nucleotide sequence of the Mel/V5-His DEST cassette (SEQ ID NO: 94).

```
1101   GGCCCCCAAC ACGATGTTTG TGCCGGGCAA GGTCGGCGGG ATGAGGGCCA
       CCGGGGGTTG TGCTACAAAC ACGGCCCGTT CCAGCCGCCC TACTCCCGGT
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                              tk gene
        A  G  L  V   I  N  T   G  P  L   T  P  P  I   L  A  V ·
1151   CGAACGCCAG CACGGCCTGG GGGGTCATGC TGCCCATAAG GTATCGCGCG
       GCTTGCGGTC GTGCCGGACC CCCCAGTACG ACGGGTATTC CATAGCGCGC
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                              tk gene
       . F  A  L   V  A  Q  P   T  M  S   G  M  L   Y  R  A  A ·
1201   GCCGGGTAGC ACAGGAGGGC GGCGATGGGA TGGCGGTCGA AGATGAGGGT
       CGGCCCATCG TGTCCTCCCG CCGCTACCCT ACCGCCAGCT TCTACTCCCA
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                              tk gene
       .. P  Y  C   L  L  A   A  I  P  H   R  D  F   I  L  T
1251   GAGGGCCGGG GGCGGGGCAT GTGAGCTCCC AGCCTCCCCC CCGATATGAG
       CTCCCGGCCC CCGCCCCGTA CACTCGAGGG TCGGAGGGGG GGCTATACTC
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                              tk gene
        L  A  P  P   P  A  H   S  S  G   A  E  G  G   I  H  P ·
1301   GAGCCAGAAC GGCGTCGGTC ACGGCATAAG GCATGCCCAT TGTTATCTGG
       CTCGGTCTTG CCGCAGCCAG TGCCGTATTC CGTACGGGTA ACAATAGACC
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                              tk gene
       . A  L  V   A  D  T  V   A  Y  P   M  G  M   T  I  Q  A ·
1351   GCGCTTGTCA TTACCACCGC CGCGTCCCCG GCCGATATCT CACCCTGGTC
       CGCGAACAGT AATGGTGGCG GCGCAGGGGC CGGCTATAGA GTGGGACCAG
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                              tk gene
       .. S  T  M   V  V  A   A  D  G  A   S  I  E   G  Q  D
1401   GAGGCGGTGT TGTGTGGTGT AGATGTTCGC GATTGTCTCG GAAGCCCCCA
       CTCCGCCACA ACACACCACA TCTACAAGCG CTAACAGAGC CTTCGGGGGT
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                              tk gene
        L  R  H  Q   T  T  Y   I  N  A   I  T  E  S   A  G  L ·
1451   ACACCCGCCA GTAAGTCATC GGCTCGGGTA CGTAGACGAT ATCGTCGCGC
       TGTGGGCGGT CATTCAGTAG CCGAGCCCAT GCATCTGCTA TAGCAGCGCG
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                              tk gene
       . V  R  W   Y  T  M  P   E  P  V   Y  V  I   D  D  R  S ·
1501   GAACCCAGGG CCACCAGCAG TTGCGTGGTG GTGGTTTTCC CCATCCCGTG
       CTTGGGTCCC GGTGGTCGTC AACGCACCAC CACCAAAAGG GGTAGGGCAC
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                              tk gene
       .. G  L  A   V  L  L   Q  T  T  T   T  K  G   M  G  H
```

Table 14 (continued) Nucleotide sequence of the Mel/V5-His DEST cassette (SEQ ID NO: 94).

```
1551   GGGACCGTCT ATATAAACCC GCAGTAGCGT GGGCATTTTC TGCTCCAGGC
       CCCTGGCAGA TATATTTGGG CGTCATCGCA CCCGTAAAAG ACGAGGTCCG
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                            tk gene
        P  G  D  I   Y  V  R   L  L  T   P  M  K  Q   E  L  R ·
1601   GGACTTCCGT GGCTTTTTGT TGCCGGCGAG GGCGCAACGC CGTACGTCGG
       CCTGAAGGCA CCGAAAAACA ACGGCCGCTC CCGCGTTGCG GCATGCAGCC
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                            tk gene
       . V  E  T   A  K  Q  Q   R  R  P   R  L  A   T  R  R  N ·
1651   TTGTTATGGC CGCGAGAACG CGCAGCCTGG TCGAACGCAG ACGCGTGTTG
       AACAATACCG GCGCTCTTGC GCGTCGGACC AGCTTGCGTC TGCGCACAAC
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                            tk gene
       .. N  H  G   R  S  R   A  A  Q  D   F  A  S   A  H  Q
1701   ATGGCAGGGG TACGAAGCCA TAGATCCCGT TATCAATTAC TTATACTATC
       TACCGTCCCC ATGCTTCGGT ATCTAGGGCA ATAGTTAATG AATATGATAG
       ~~~~~~~~~~~~~~~~~~~~~
              tk gene                                      ie-0
       pr
        H  C  P  Y   S  A  M
1751   CGGCGCGCAA GCGAGCGTGT GCGCCGGAGC ACAATTGATA CTGATTTACG
       GCCGCGCGTT CGCTCGCACA CGCGGCCTCG TGTTAACTAT GACTAAATGC
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                            ie-0 pr
1801   AGTTGGGCAA ACGGGCTTTA TATAGCCTGT CCCCTCCACA GCCCTAGTGC
       TCAACCCGTT TGCCCGAAAT ATATCGGACA GGGGAGGTGT CGGGATCACG
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                            ie-0 pr
1851   CGTGCGCAAA GTGCCTACGT GACCAGGCTC TCCTACGCAT ATACAATCTT
       GCACGCGTTT CACGGATGCA CTGGTCCGAG AGGATGCGTA TATGTTAGAA
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                            ie-0 pr
1901   ATCTCTATAG ATAAGGTTTC CATATATAAA GCCTCTCGAT GGCTGAACGT
       TAGAGATATC TATTCCAAAG GTATATATTT CGGAGAGCTA CCGACTTGCA
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                            ie-0 pr
1951   GCACAGTATC GTGTTGATTT CTGAGTGCTA ACTAACAGTT ACAATGAACC
       CGTGTCATAG CACAACTAAA GACTCACGAT TGATTGTCAA TGTTACTTGG
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                            ie-0 pr
2001   GTTTTTTTCG AGAGAATAAC ATTTTTGACG CGCCAAGGAC CGGGGGCAAG
       CAAAAAAAGC TCTCTTATTG TAAAAACTGC GCGGTTCCTG GCCCCCGTTC
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                            ie-0 pr
```

Table 14 (continued) Nucleotide sequence of the Mel/V5-His DEST cassette (SEQ ID NO: 94).

```
2051   GGTCGTGCCA AATCTTTGCC AGCGCCTGCC GCCAACTCGC CGCCGTCGCC
       CCAGCACGGT TTAGAAACGG TCGCGGACGG CGGTTGAGCG GCGGCAGCGG
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                            ie-0 pr
2101   TGTTCGTCCG CCGCCAAAAT CTAACATCAA ACCACCTACG CGCATCTCTC
       ACAAGCAGGC GGCGGTTTTA GATTGTAGTT TGGTGGATGC GCGTAGAGAG
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                            ie-0 pr
2151   CGCCTAAACA GCCTATGTGC ACCTCTCCGG CCAAGCCGTT GGAGCACAGC
       GCGGATTTGT CGGATACACG TGGAGAGGCC GGTTCGGCAA CCTCGTGTCG
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                            ie-0 pr
2201   AGCATTGTAA GTAAAAAACC AGTCGTCAAC AGAAAAGATG GATATTTTGT
       TCGTAACATT CATTTTTTGG TCAGCAGTTG TCTTTTCTAC CTATAAAACA
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                            ie-0 pr
2251   GCCGCCCGAG TTTGGGAACA AGTTTGAAGG TTTGCCCGCG TACAGCGACA
       CGGCGGGCTC AAACCCTTGT TCAAACTTCC AAACGGGCGC ATGTCGCTGT
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                            ie-0 pr
                                                        p10 pr
                                                        ~~
2301   AACTGGATTT CAAACAAGAG CGCGATCTAC GTACCTGCAG GCCCGGGCTC
       TTGACCTAAA GTTTGTTCTC GCGCTAGATG CATGGACGTC CGGGCCCGAG
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                       ie-0 pr
                            p10 pr
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
2351   AACCCAACAC AATATATTAT AGTTAAATAA GAATTATTAT CAAATCATTT
       TTGGGTTGTG TTATATAATA TCAATTTATT CTTAATAATA GTTTAGTAAA
                          p10 pr
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
2401   GTATATTAAT TAAAATACTA TACTGTAAAT TACATTTTAT TTACAATTCA
       CATATAATTA ATTTTATGAT ATGACATTTA ATGTAAAATA AATGTTAAGT
                                 lacZ
              ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                M   T  M  I  T   D  S  L   A  V  V   L  Q  R  R ·
2451   CTCTAGAATG ACCATGATTA CGGATTCACT GGCCGTCGTT TTACAACGTC
       GAGATCTTAC TGGTACTAAT GCCTAAGTGA CCGGCAGCAA AATGTTGCAG
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · D  W  E   N  P  G   V  T  Q  L   N  R  L   A  A  H
```

Table 14 (continued) Nucleotide sequence of the Mel/V5-His DEST cassette (SEQ ID NO: 94).

```
2501   GTGACTGGGA AAACCCTGGC GTTACCCAAC TTAATCGCCT TGCAGCACAT
       CACTGACCCT TTTGGGACCG CAATGGGTTG AATTAGCGGA ACGTCGTGTA
                               lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        P  P  F  A   S  W  R   N  S  E   E  A  R  T   D  R  P ·
2551   CCCCCTTTCG CCAGCTGGCG TAATAGCGAA GAGGCCCGCA CCGATCGCCC
       GGGGGAAAGC GGTCGACCGC ATTATCGCTT CTCCGGGCGT GGCTAGCGGG
                               lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · S  Q  Q   L  R  S  L   N  G  E   W  R  F   A  W  F  P ·
2601   TTCCCAACAG TTGCGCAGCC TGAATGGCGA ATGGCGCTTT GCCTGGTTTC
       AAGGGTTGTC AACGCGTCGG ACTTACCGCT TACCGCGAAA CGGACCAAAG
                               lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                                                      Bsu36I
                                                      ~~~~~~
       ·  A  P  E   A  V  P   E  S  W  L   E  C  D   L  P  E
2651   CGGCACCAGA AGCGGTGCCG GAAAGCTGGC TGGAGTGCGA TCTTCCTGAG
       GCCGTGGTCT TCGCCACGGC CTTTCGACCG ACCTCACGCT AGAAGGACTC
                               lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       Bsu36I
       ~
        A  D  T  V   V  V  P   S  N  W   Q  M  H  G   Y  D  A ·
2701   GCCGATACTG TCGTCGTCCC CTCAAACTGG CAGATGCACG GTTACGATGC
       CGGCTATGAC AGCAGCAGGG GAGTTTGACC GTCTACGTGC CAATGCTACG
                               lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · P  I  Y   T  N  V  T   Y  P  I   T  V  N   P  P  F  V ·
2751   GCCCATCTAC ACCAACGTAA CCTATCCCAT TACGGTCAAT CCGCCGTTTG
       CGGGTAGATG TGGTTGCATT GGATAGGGTA ATGCCAGTTA GGCGGCAAAC
                               lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       ·  P  T  E   N  P  T   G  C  Y  S   L  T  F   N  V  D
2801   TTCCCACGGA GAATCCGACG GGTTGTTACT CGCTCACATT TAATGTTGAT
       AAGGGTGCCT CTTAGGCTGC CCAACAATGA GCGAGTGTAA ATTACAACTA
                               lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        E  S  W  L   Q  E  G   Q  T  R   I  I  F  D   G  V  N ·
2851   GAAAGCTGGC TACAGGAAGG CCAGACGCGA ATTATTTTTG ATGGCGTTAA
       CTTTCGACCG ATGTCCTTCC GGTCTGCGCT TAATAAAAAC TACCGCAATT
                               lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · S  A  F   H  L  W  C   N  G  R   W  V  G   Y  G  Q  D ·
```

Table 14 (continued) Nucleotide sequence of the Mel/V5-His DEST cassette (SEQ ID NO: 94).

```
2901   CTCGGCGTTT CATCTGTGGT GCAACGGGCG CTGGGTCGGT TACGGCCAGG
       GAGCCGCAAA GTAGACACCA CGTTGCCCGC GACCCAGCCA ATGCCGGTCC
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · S  R  L   P  S  E   F  D  L  S   A  F  L   R  A  G
2951   ACAGTCGTTT GCCGTCTGAA TTTGACCTGA GCGCATTTTT ACGCGCCGGA
       TGTCAGCAAA CGGCAGACTT AAACTGGACT CGCGTAAAAA TGCGCGGCCT
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        E  N  R  L   A  V  M   V  L  R   W  S  D  G   S  Y  L ·
3001   GAAAACCGCC TCGCGGTGAT GGTGCTGCGT TGGAGTGACG GCAGTTATCT
       CTTTTGGCGG AGCGCCACTA CCACGACGCA ACCTCACTGC CGTCAATAGA
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · E  D  Q   D  M  W  R   M  S  G   I  F  R   D  V  S  L ·
3051   GGAAGATCAG GATATGTGGC GGATGAGCGG CATTTTCCGT GACGTCTCGT
       CCTTCTAGTC CTATACACCG CCTACTCGCC GTAAAAGGCA CTGCAGAGCA
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · L  H  K   P  T  T   Q  I  S  D   F  H  V   A  T  R
3101   TGCTGCATAA ACCGACTACA CAAATCAGCG ATTTCCATGT TGCCACTCGC
       ACGACGTATT TGGCTGATGT GTTTAGTCGC TAAAGGTACA ACGGTGAGCG
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        F  N  D  D   F  S  R   A  V  L   E  A  E  V   Q  M  C ·
3151   TTTAATGATG ATTTCAGCCG CGCTGTACTG GAGGCTGAAG TTCAGATGTG
       AAATTACTAC TAAAGTCGGC GCGACATGAC CTCCGACTTC AAGTCTACAC
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · G  E  L   R  D  Y  L   R  V  T   V  S  L   W  Q  G  E ·
3201   CGGCGAGTTG CGTGACTACC TACGGGTAAC AGTTTCTTTA TGGCAGGGTG
       GCCGCTCAAC GCACTGATGG ATGCCCATTG TCAAAGAAAT ACCGTCCCAC
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · T  Q  V   A  S  G   T  A  P  F   G  G  E   I  I  D
3251   AAACGCAGGT CGCCAGCGGC ACCGCGCCTT TCGGCGGTGA AATTATCGAT
       TTTGCGTCCA GCGGTCGCCG TGGCGCGGAA AGCCGCCACT TTAATAGCTA
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        E  R  G  G   Y  A  D   R  V  T   L  R  L  N   V  E  N ·
3301   GAGCGTGGTG GTTATGCCGA TCGCGTCACA CTACGTCTGA ACGTCGAAAA
       CTCGCACCAC CAATACGGCT AGCGCAGTGT GATGCAGACT TGCAGCTTTT
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · P  K  L   W  S  A  E   I  P  N   L  Y  R   A  V  V  E ·
```

Table 14 (continued) Nucleotide sequence of the Mel/V5-His DEST cassette (SEQ ID NO: 94).

```
3351   CCCGAAACTG TGGAGCGCCG AAATCCCGAA TCTCTATCGT GCGGTGGTTG
       GGGCTTTGAC ACCTCGCGGC TTTAGGGCTT AGAGATAGCA CGCCACCAAC
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · L  H  T   A  D  G   T  L  I  E   A  E  A   C  D  V
3401   AACTGCACAC CGCCGACGGC ACGCTGATTG AAGCAGAAGC CTGCGATGTC
       TTGACGTGTG GCGGCTGCCG TGCGACTAAC TTCGTCTTCG GACGCTACAG
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        G  F  R  E   V  R  I   E  N  G   L  L  L  L   N  G  K ·
3451   GGTTTCCGCG AGGTGCGGAT TGAAAATGGT CTGCTGCTGC TGAACGGCAA
       CCAAAGGCGC TCCACGCCTA ACTTTTACCA GACGACGACG ACTTGCCGTT
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · P  L  L   I  R  G  V   N  R  H   E  H  H   P  L  H  G ·
3501   GCCGTTGCTG ATTCGAGGCG TTAACCGTCA CGAGCATCAT CCTCTGCATG
       CGGCAACGAC TAAGCTCCGC AATTGGCAGT GCTCGTAGTA GGAGACGTAC
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · Q  V  M   D  E  Q   T  M  V  Q   D  I  L   L  M  K
3551   GTCAGGTCAT GGATGAGCAG ACGATGGTGC AGGATATCCT GCTGATGAAG
       CAGTCCAGTA CCTACTCGTC TGCTACCACG TCCTATAGGA CGACTACTTC
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        Q  N  N  F   N  A  V   R  C  S   H  Y  P  N   H  P  L ·
3601   CAGAACAACT TTAACGCCGT GCGCTGTTCG CATTATCCGA ACCATCCGCT
       GTCTTGTTGA AATTGCGGCA CGCGACAAGC GTAATAGGCT TGGTAGGCGA
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · W  Y  T   L  C  D  R   Y  G  L   Y  V  V   D  E  A  N ·
3651   GTGGTACACG CTGTGCGACC GCTACGGCCT GTATGTGGTG GATGAAGCCA
       CACCATGTGC GACACGCTGG CGATGCCGGA CATACACCAC CTACTTCGGT
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · I  E  T   H  G  M   V  P  M  N   R  L  T   D  D  P
3701   ATATTGAAAC CCACGGCATG GTGCCAATGA ATCGTCTGAC CGATGATCCG
       TATAACTTTG GGTGCCGTAC CACGGTTACT TAGCAGACTG GCTACTAGGC
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        R  W  L  P   A  M  S   E  R  V   T  R  M  V   Q  R  D ·
3751   CGCTGGCTAC CGGCGATGAG CGAACGCGTA ACGCGAATGG TGCAGCGCGA
       GCGACCGATG GCCGCTACTC GCTTGCGCAT TGCGCTTACC ACGTCGCGCT
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · R  N  H   P  S  V  I   I  W  S   L  G  N   E  S  G  H ·
```

Table 14 (continued) Nucleotide sequence of the Mel/V5-His DEST cassette (SEQ ID NO: 94).

```
3801   TCGTAATCAC CCGAGTGTGA TCATCTGGTC GCTGGGGAAT GAATCAGGCC
       AGCATTAGTG GGCTCACACT AGTAGACCAG CGACCCCTTA CTTAGTCCGG
                               lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · G  A  N   H  D  A   L  Y  R  W   I  K  S   V  D  P
3851   ACGGCGCTAA TCACGACGCG CTGTATCGCT GGATCAAATC TGTCGATCCT
       TGCCGCGATT AGTGCTGCGC GACATAGCGA CCTAGTTTAG ACAGCTAGGA
                               lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        S  R  P  V   Q  Y  E   G  G  G   A  D  T  T   A  T  D ·
3901   TCCCGCCCGG TGCAGTATGA AGGCGGCGGA GCCGACACCA CGGCCACCGA
       AGGGCGGGCC ACGTCATACT TCCGCCGCCT CGGCTGTGGT GCCGGTGGCT
                               lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · I  I  C   P  M  Y  A   R  V  D   E  D  Q   P  F  P  A ·
3951   TATTATTTGC CCGATGTACG CGCGCGTGGA TGAAGACCAG CCCTTCCCGG
       ATAATAAACG GGCTACATGC GCGCGCACCT ACTTCTGGTC GGGAAGGGCC
                               lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · V  P  K   W  S  I   K  K  W  L   S  L  P   G  E  T
4001   CTGTGCCGAA ATGGTCCATC AAAAAATGGC TTTCGCTACC TGGAGAGACG
       GACACGGCTT TACCAGGTAG TTTTTTACCG AAAGCGATGG ACCTCTCTGC
                               lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        R  P  L  I   L  C  E   Y  A  H   A  M  G  N   S  L  G ·
4051   CGCCCGCTGA TCCTTTGCGA ATACGCCCAC GCGATGGGTA ACAGTCTTGG
       GCGGGCGACT AGGAAACGCT TATGCGGGTG CGCTACCCAT TGTCAGAACC
                               lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · G  F  A   K  Y  W  Q   A  F  R   Q  Y  P   R  L  Q  G ·
4101   CGGTTTCGCT AAATACTGGC AGGCGTTTCG TCAGTATCCC CGTTTACAGG
       GCCAAAGCGA TTTATGACCG TCCGCAAAGC AGTCATAGGG GCAAATGTCC
                               lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · G  F  V   W  D  W   V  D  Q  S   L  I  K   Y  D  E
4151   GCGGCTTCGT CTGGGACTGG GTGGATCAGT CGCTGATTAA ATATGATGAA
       CGCCGAAGCA GACCCTGACC CACCTAGTCA GCGACTAATT TATACTACTT
                               lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        N  G  N  P   W  S  A   Y  G  G   D  F  G  D   T  P  N ·
4201   AACGGCAACC CGTGGTCGGC TTACGGCGGT GATTTTGGCG ATACGCCGAA
       TTGCCGTTGG GCACCAGCCG AATGCCGCCA CTAAAACCGC TATGCGGCTT
                               lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · D  R  Q   F  C  M  N   G  L  V   F  A  D   R  T  P  H ·
```

Table 14 (continued) Nucleotide sequence of the Mel/V5-His DEST cassette (SEQ ID NO: 94).

```
4251   CGATCGCCAG TTCTGTATGA ACGGTCTGGT CTTTGCCGAC CGCACGCCGC
       GCTAGCGGTC AAGACATACT TGCCAGACCA GAAACGGCTG GCGTGCGGCG
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · P  A  L   T  E  A   K  H  Q   Q   F  F   Q  F  R
4301   ATCCAGCGCT GACGGAAGCA AAACACCAGC AGCAGTTTTT CCAGTTCCGT
       TAGGTCGCGA CTGCCTTCGT TTTGTGGTCG TCGTCAAAAA GGTCAAGGCA
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        L  S  G  Q   T  I  E   V  T  S   E  Y  L  F   R  H  S ·
4351   TTATCCGGGC AAACCATCGA AGTGACCAGC GAATACCTGT TCCGTCATAG
       AATAGGCCCG TTTGGTAGCT TCACTGGTCG CTTATGGACA AGGCAGTATC
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · D  N  E   L  L  H  W   M  V  A   L  D  G   K  P  L  A ·
4401   CGATAACGAG CTCCTGCACT GGATGGTGGC GCTGGATGGT AAGCCGCTGG
       GCTATTGCTC GAGGACGTGA CCTACCACCG CGACCTACCA TTCGGCGACC
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · S  G  E   V  P  L   D  V  A  P   Q  G  K   Q  L  I
4451   CAAGCGGTGA AGTGCCTCTG GATGTCGCTC CACAAGGTAA ACAGTTGATT
       GTTCGCCACT TCACGGAGAC CTACAGCGAG GTGTTCCATT TGTCAACTAA
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        E  L  P  E   L  P  Q   P  E  S   A  G  Q  L   W  L  T ·
4501   GAACTGCCTG AACTACCGCA GCCGGAGAGC GCCGGGCAAC TCTGGCTCAC
       CTTGACGGAC TTGATGGCGT CGGCCTCTCG CGGCCCGTTG AGACCGAGTG
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · V  R  V   V  Q  P  N   A  T  A   W  S  E   A  G  H  I ·
4551   AGTACGCGTA GTGCAACCGA ACGCGACCGC ATGGTCAGAA GCCGGGCACA
       TCATGCGCAT CACGTTGGCT TGCGCTGGCG TACCAGTCTT CGGCCCGTGT
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · S  A  W   Q  Q  W   R  L  A  E   N  L  S   V  T  L
4601   TCAGCGCCTG GCAGCAGTGG CGTCTGGCGG AAAACCTCAG TGTGACGCTC
       AGTCGCGGAC CGTCGTCACC GCAGACCGCC TTTTGGAGTC ACACTGCGAG
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        P  A  A  S   H  A  I   P  H  L   T  T  S  E   M  D  F ·
4651   CCCGCCGCGT CCCACGCCAT CCCGCATCTG ACCACCAGCG AAATGGATTT
       GGGCGGCGCA GGGTGCGGTA GGGCGTAGAC TGGTGGTCGC TTTACCTAAA
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · C  I  E   L  G  N  K   R  W  Q   F  N  R   Q  S  G  F ·
```

Table 14 (continued) Nucleotide sequence of the Mel/V5-His DEST cassette (SEQ ID NO: 94).

```
4701   TTGCATCGAG CTGGGTAATA AGCGTTGGCA ATTTAACCGC CAGTCAGGCT
       AACGTAGCTC GACCCATTAT TCGCAACCGT TAAATTGGCG GTCAGTCCGA
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · L  S  Q   M  W  I   G  D  K  K   Q  L  L   T  P  L
4751   TTCTTTCACA GATGTGGATT GGCGATAAAA AACAACTGCT GACGCCGCTG
       AAGAAAGTGT CTACACCTAA CCGCTATTTT TTGTTGACGA CTGCGGCGAC
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        R  D  Q  F   T  R  A   P  L  D   N  D  I  G   V  S  E ·
4801   CGCGATCAGT TCACCCGTGC ACCGCTGGAT AACGACATTG GCGTAAGTGA
       GCGCTAGTCA AGTGGGCACG TGGCGACCTA TTGCTGTAAC CGCATTCACT
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · A  T  R   I  D  P  N   A  W  V   E  R  W   K  A  A  G ·
4851   AGCGACCCGC ATTGACCCTA ACGCCTGGGT CGAACGCTGG AAGGCGGCGG
       TCGCTGGGCG TAACTGGGAT TGCGGACCCA GCTTGCGACC TTCCGCCGCC
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · H  Y  Q   A  E  A   A  L  L  Q   C  T  A   D  T  L
4901   GCCATTACCA GGCCGAAGCA GCGTTGTTGC AGTGCACGGC AGATACACTT
       CGGTAATGGT CCGGCTTCGT CGCAACAACG TCACGTGCCG TCTATGTGAA
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        A  D  A  V   L  I  T   T  A  H   A  W  Q  H   Q  G  K ·
4951   GCTGATGCGG TGCTGATTAC GACCGCTCAC GCGTGGCAGC ATCAGGGGAA
       CGACTACGCC ACGACTAATG CTGGCGAGTG CGCACCGTCG TAGTCCCCTT
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · T  L  F   I  S  R  K   T  Y  R   I  D  G   S  G  Q  M ·
5001   AACCTTATTT ATCAGCCGGA AAACCTACCG GATTGATGGT AGTGGTCAAA
       TTGGAATAAA TAGTCGGCCT TTTGGATGGC CTAACTACCA TCACCAGTTT
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · A  I  T   V  D  V   E  V  A  S   D  T  P   H  P  A
5051   TGGCGATTAC CGTTGATGTT GAAGTGGCGA GCGATACACC GCATCCGGCG
       ACCGCTAATG GCAACTACAA CTTCACCGCT CGCTATGTGG CGTAGGCCGC
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        R  I  G  L   N  C  Q   L  A  Q   V  A  E  R   V  N  W ·
5101   CGGATTGGCC TGAACTGCCA GCTGGCGCAG GTAGCAGAGC GGGTAAACTG
       GCCTAACCGG ACTTGACGGT CGACCGCGTC CATCGTCTCG CCCATTTGAC
                              lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · L  G  L   G  P  Q  E   N  Y  P   D  R  L   T  A  A  C ·
```

Table 14 (continued) Nucleotide sequence of the Mel/V5-His DEST cassette (SEQ ID NO: 94).

```
5151   GCTCGGATTA GGGCCGCAAG AAAACTATCC CGACCGCCTT ACTGCCGCCT
       CGAGCCTAAT CCCGGCGTTC TTTTGATAGG GCTGGCGGAA TGACGGCGGA
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · F  D  R   W  D  L   P  L  S  D   M  Y  T   P  Y  V
5201   GTTTTGACCG CTGGGATCTG CCATTGTCAG ACATGTATAC CCCGTACGTC
       CAAAACTGGC GACCCTAGAC GGTAACAGTC TGTACATATG GGGCATGCAG
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        F  P  S  E   N  G  L   R  C  G   T  R  E  L   N  Y  G ·
5251   TTCCCGAGCG AAAACGGTCT GCGCTGCGGG ACGCGCGAAT TGAATTATGG
       AAGGGCTCGC TTTTGCCAGA CGCGACGCCC TGCGCGCTTA ACTTAATACC
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · P  H  Q   W  R  G  D   F  Q  F   N  I  S   R  Y  S  Q ·
5301   CCCACACCAG TGGCGCGGCG ACTTCCAGTT CAACATCAGC CGCTACAGTC
       GGGTGTGGTC ACCGCGCCGC TGAAGGTCAA GTTGTAGTCG GCGATGTCAG
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · Q  Q  L   M  E  T   S  H  R  H   L  L  H   A  E  E
5351   AACAGCAACT GATGGAAACC AGCCATCGCC ATCTGCTGCA CGCGGAAGAA
       TTGTCGTTGA CTACCTTTGG TCGGTAGCGG TAGACGACGT GCGCCTTCTT
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        G  T  W  L   N  I  D   G  F  H   M  G  I  G   G  D  D ·
5401   GGCACATGGC TGAATATCGA CGGTTTCCAT ATGGGGATTG GTGGCGACGA
       CCGTGTACCG ACTTATAGCT GCCAAAGGTA TACCCCTAAC CACCGCTGCT
                                lacZ
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
       · S  W  S   P  S  V  S   A  E  F   Q  L  S   A  G  R  Y ·
5451   CTCCTGGAGC CCGTCAGTAT CGGCGGAATT CCAGCTGAGC GCCGGTCGCT
       GAGGACCTCG GGCAGTCATA GCCGCCTTAA GGTCGACTCG CGGCCAGCGA
                  lacZ                                  AttR2
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~                     ~~~
       · H  Y  Q   L  V  W   C  Q  K
5501   ACCATTACCA GTTGGTCTGG TGTCAAAAAT AATGACTGCA GGTCGACCAT
       TGGTAATGGT CAACCAGACC ACAGTTTTTA TTACTGACGT CCAGCTGGTA
                               AttR2
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
5551   AGTGACTGGA TATGTTGTGT TTTACAGTAT TATGTAGTCT GTTTTTTATG
       TCACTGACCT ATACAACACA AAATGTCATA ATACATCAGA CAAAAAATAC
                               AttR2
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
```

Table 14 (continued) Nucleotide sequence of the Mel/V5-His DEST cassette (SEQ ID NO: 94).

```
5601   CAAAATCTAA TTTAATATAT TGATATTTAT ATCATTTTAC GTTTCTCGTT
       GTTTTAGATT AAATTATATA ACTATAAATA TAGTAAAATG CAAAGAGCAA
               AttR2                                  V5/His
       ~~~~~~~~~~~~~~~~~~~~~~~~                      ~~~~~~~~~
                                                       G  K  P
5651   CAGCTTTCTT GTACAAAGTG GTGAGAATGA ATGAAGATCT GGGGAAGCCT
       GTCGAAAGAA CATGTTTCAC CACTCTTACT TACTTCTAGA CCCCTTCGGA
                             V5/His
       ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        I  P  N  P   L  L  G   L  D  S   T  R  T  G   H  H  H ·
5701   ATCCCTAACC CTCTCCTCGG TCTCGATTCT ACGCGTACCG GTCATCATCA
       TAGGGATTGG GAGAGGAGCC AGAGCTAAGA TGCGCATGGC CAGTAGTAGT
                  stop codon
                  ~~~
         V5/His
       ~~~~~~~~~~~
       · H  H  H
5751   CCATCACCAT TGA
       GGTAGTGGTA ACT
```

Please amend Table 15 on pages 429 and 430 as follows:

Table 15: Baculoviral promoter sequences.

AcMNPV ORF 25 promoter sequence (SEQ ID NO: 98)
Ggtgtcttcattagtatgccaatcacgtacgcaacagtcgcaaaagaaacacacagtttcgtctccgcgacccgtgtaaaaagtcccgctt
ccgcaatgtttgtaatcatgtcacgcaatgcggcaggccaaaagttaacaaacgtatccatacgcgactgtaaattggacatgcatctgtaca
cacacttgggtttgccttctttcactagtacagcgttgatggtaatgttgtcgccaaacgattcacgctcggcgatcttgttagcatacgcgcaa
tacggcgacaaggttacgtgtgcatattcaatacactcgtcttcggaccaatttttatttctgcttcgcaatactcgcacacaacgtgatcgtca
acttgattgtatttaaacccgttaacgatcaagctgttaataaacgccgtgttttcaatgggataattttcaaacgaactatgtctttctattaacatg
tcgaatacgtgttcggcggtgttgtcgcgaaagttgtcacacacgctgataaaataaaacgggggcgtgtcctcgttcattttagctcgttaaa
gttacggtcaaaatgagcacgtttgcgtcgttttggtttagcgacacgtttatatggcccagtttggtttttgtttcggcgttaatgacgtgcactg
tggacaaatcgtgttctaaaactacaaactcgtactcgaaaatgtttgatatgtagttggttagccgatctatcttaaaattaaacttttgcaactc
gctgatagagcacacgtccacatacttgtcgataaacccgttgctcaaccgcttcaaaacggtgtaattttgtagcttgaaggggcgcatttg
gaatgactaaaaggaatatttttcaataaatcgtcagtagtgtacgcaaacgcgttgtctacgcacatgctggcaacagagtcgtccatatttat
tatatatcttatattctgtgaaacacttcaattagacttgaaccacagcagacagcgcacgtcggtagc

AcMNPV lef 3 promoter (SEQ ID NO: 99)
Ccgagaagaaggcggtttgtataaaacccatttttcgaaatggttaacaaacttgtttagcatttggatcgtttcgtgttcaaacgcgtcgaaaa
cttttaaaacgcaattgccgccgggacgcaggcaaattaaaattagctgcgtctcgcacatgatcaaatcaaagttgagacgttcttgttcgttt
tcgcgtccattaacgtcaaccgagccatctgccaacaccagatcgcacgcgttgccacacttgatgctaatctcaaatacaacatttttatcaa
acacgtcgcctgacttgtcgggccccgtaatggttgtgaaatttttgcgtttgcgcactgtcggtttgtacacgcacaccgagttgtttgtcaac
gtgacgccatacgctttgcaaagcgggttcaacgacatggtatagttggcaaactcgcccggtccgccgcacaaatccaaaaacgtgtcaa
cgtgtcggcaaacgtgaaactttttgtcgatctctgatagttttcgccaacatctaggtctgcgcgttgggcgtttgtcaaataattttgagcgag
cgcaaaccaccgacttgctgctgaacgtgttcaaaccatctttgagtttatttaatttttgctgcaacatttttactcttcgtgtcggtcgcaatgttt
gtgtcgaaaaagacggccaacacgctcagcaaaactatacaaataaagaacaaaaatacgtacgcaatattaacattgaccgtttgatcgtt
aaatcggacgggtctgttcagagccgctcttattctctcgttgtacattgttaaagtttttgtttttaaattgtacacaatcggcgtgttgtagtcga
aattttcaaaatcggctttttgaaacattgttctgaacgtgttgtcgagcggcgtgttgctggccacgtttataatcaactccctccacgctaacg
aacggtgctctggcgacacttcgatttcgtcgccattcagtatttgccatcggatagattcccacatatcgacaacagcaat

AcMNPV TLP promoter (SEQ ID NO: 100)
tgctagcccaattggccactgttgtacgaaatatcgtcgtcaacgtgtttgaatacatgttggcccgtaccgttgggtaaatctatgcatctgga
gtcgccggaacactcgtactggttgtcagagtttctgatccggttgatgcacgttatcagttgtgactcgttattattcaaacatttgaaatattgc
gtgtcgccgatatcggccgttatgtacgtgtgtccggcgccgttaaacgcgcacggatgcgcttccacgcacgacattaagttgcgatcaaa
tattttattcgcggggcattcgcccaccacgtggcgcccatttacgcactgcataaactggttgacgagcaaattggagggaaagtatgata
gtatatagccgtctggcctgttttcacacaattcgttaactttacactggccggtttccgcgtcaaacgtgtaattatctggacattcttcgactgc
gtgcgctccgtttgcaaaacacctaagatagaacgtgggatgatacaagtgcgcgttggtagaataatctttgtccaagtgttggttcaacac
caacgtgtccagcaaacgctcgtccatgggataaagaccggcagacttgttgtcgcacggcggcacgggaacacattttagttgtgcgtaa
tcaaagttaaaatatgcggggcatttcatggtcacgtcggccttgtcgccgctcaaaataaactcgttgggattttcatcatttgctctaacgcg
atcgtgtacgattcgatcaacaggttgaaatttttgatttaagaaatcaaaaatttcaatccggtcatcatgcacgctttcgtgataggtggaaag
gtcgacggtgttgaaccacgttacaatataagtgttttgcataatatccgacacgtagcctattacgtcgggtgtgggttcgtctgcgttggtgc
gcttcacatattcagtcatcacttggagccgcttggtgaaagtcgtttcgtcaaattcaaaataaattgccaaatacattaaagtaaacgctatta
taagaaaaaagctt

Table 15 (continued) Baculoviral promoter sequences.

AcMNPV hr5 sequence (SEQ ID NO: 101)
Gttttacgcgtagaattctacccgtaaagcgagtttagttatgagccatgtgcaaaacatgacatcagcttttatttttataacaaatgacatcatt
tcttgattgtgttttacacgtagaattctactcgtaaagcgagttcagttttgaaaaacaaatgacatcatctttttgattgtgctttacaagtagaat
tctacccgtaaatcaagttcggttttgaaaaacaaatgagtcatattgtatgatatcatattgcaaacaaatgactcatcaatcgatcgtgcgtac
acgtagaattctactcgtaaagcgagtttatgagccgtgtgcaaaacatgacatcatctcgatttgaaaaacaaatgacatcatccactgatcg
tgcgttacaagtagaattctactcgtaaagccagttcggttatgagccgtgtgcaaaacatgacatcagcttatgactcgtacttgattgtgtttt
acgcgtagaattctactcgtaaagc

Please amend Table 16 on page 431 as follows:

Table 16: IE-1 promoter, coding, and polypeptide sequence.

AcMNPV IE-1 promoter (SEQ ID NO: 102)
Gttttacgcgtagaattctacccgtaaagcgagtttagttatgagccatgtgcaaaacatgacatcagcttttatttttataacaaatgacatcatt
tcttgattgtgttttacacgtagaattctactcgtaaagcgagttcagttttgaaaaacaaatgacatcatctttttgattgtgctttacaagtagaat
tctacccgtaaatcaagttcggttttgaaaaacaaatgagtcatattgtatgatatcatattgcaaacaaatgactcatcaatcgatcgtgcgtac
acgtagaattctactcgtaaagcgagtttatgagccgtgtgcaaaacatgacatcatctcgatttgaaaaacaaatgacatcatccactgatcg
tgcgttacaagtagaattctactcgtaaagccagttcggttatgagccgtgtgcaaaacatgacatcagcttatgactcgtacttgattgtgtttt
acgcgtagaattctactcgtaaagc

AcMPNV IE-1 coding sequence (SEQ ID NO: 103)
atgacgcaaattaattttaacgcgtcgtacaccagcgcttcgacgccgtcccgagcgtcgttcgacaacagctattcagagttttgtgataaa
caacccaacgactatttaagttattataaccatcccaccccggatggagccgacacggtgatatctgacagcgagactgcggcagcttcaa
actttttggcaagcgtcaactcgttaactgataatgatttagtggaatgtttgctcaagaccactgataatctcgaagaagcagttagttctgctt
attattcggaatcccttgagcagcctgttgtggagcaaccatcgcccagttctgcttatcatgcggaatcttttgagcattctgctggtgtgaac
caaccatcggcaactggaactaaacggaagctggacgaatacttggacaattcacaaggtgtggtgggccagtttaacaaaattaaattga
ggcctaaatacaagaaaagcacaattcaaagctgtgcaacccttgaacagacaattaatcacaacacgaacatttgcacggtcgcttcaact
caagaaattacgcattattttactaatgattttgcgccgtatttaatgcgtttcgacgacaacgactacaattccaacaggttctccgaccatatgt
ccgaaactggttattacatgtttgtggttaaaaaaagtgaagtgaagccgtttgaaattatatttgccaagtacgtgagcaatgtggtttacgaat
atacaaacaattattacatggtagataatcgcgtgtttgtggtaacttttgataaaattaggtttatgatttcgtacaatttggttaaagaaaccggc
atagaaattcctcattctcaagatgtgtgcaacgacgagacggctgcacaaaattgtaaaaaatgccatttcgtcgatgtgcaccacacgttta
aagctgctctgacttcatattttaatttagatatgtattacgcgcaaaccacatttgtgactttgttacaatcgttgggcgaaagaaaatgtgggtt
tcttttgagcaagttgtacgaaatgtatcaagataaaaatttatttactttgcctattatgcttagtcgtaaagagagtaatgaaattgagactgcat
ctaataatttctttgtatcgccgtatgtgagtcaaatattaaagtattcggaaagtgtgcagtttcccgacaatcccccaaacaaatatgtggtgg
acaatttaaatttaattgttaacaaaaaaagtacgctcacgtacaaatacagcagcgtcgctaatcttttgtttaataattataaatatcatgacaat
attgcgagtaataataacgcagaaaatttaaaaaaggttaagaaggaggacggcagcatgcacattgtcgaacagtatttgactcagaatgt
agataatgtaaagggtcacaattttatagtattgtctttcaaaaacgaggagcgattgactatagctaagaaaaacaaagagttttattggatttc
tggcgaaattaaagatgtagacgttagtcaagtaattcaaaaatataatagatttaagcatcacatgtttgtaatcggtaaagtgaaccgaaga
gagagcactacattgcacaataatttgttaaaattgttagctttaatattacagggtctggttccgttgtccgacgctataacgtttgcggaacaa
aaactaaattgtaaatataaaaaattcgaatttaat

AcMNPV IE-1 protein sequence (SEQ ID NO: 104)
Mtqinfnasytsastpsrasfdnsysefcdkqpndylsyynhptpdgadtvisdsetaaasnflasvnsltdndlvecllkttdnleeavs
sayysesleqpvveqpspssayhaesfehsagvnqpsatgtkrkldeyldnsqgvvgqfnkiklrpkykkstiqscatleqtinhntni
ctvastqeithyftndfapylmrfddndynsnrfsdhmsetgyymfvvkksevkpfeiifakyvsnvvyeytnnyymvdnrvfvvt
fdkirfmisynlvketgieiphsqdvcndetaaqnckkchfvdvhhtfkaaltsyfnldmyyaqttfvtllqslgerkcgfllsklyemy
qdknlftlpimlsrkesneietasnnffvspyvsqilkysesvqfpdnppnkyvvdnlnlivnkkstltykyssvanllfnnykyhdnia
snnnaenlkkvkkedgsmhiveqyltqnvdnvkghnfivlsfkneerltiakknkefywisgeikdvdvsqviqkynrfkhhmfvi
gkvnrresttlhnnllkllalilqglvplsdaitfaeqklnckykkfefn

Please amend Table 17 on pages 432-434 as follows:

Table 17: Nucleotide sequence of plasmid pLenti6/V5-DEST (SEQ ID NO: 105).

AATGTAGTCTTATGCAATACTCTTGTAGTCTTGCAACATGGTAACGATGAGTTAGCAACATGCCTTACAA
GGAGAGAAAAAGCACCGTGCATGCCGATTGGTGGAAGTAAGGTGGTACGATCGTGCCTTATTAGGAAGGC
AACAGACGGGTCTGACATGGATTGGACGAACCACTGAATTGCCGCATTGCAGAGATATTGTATTTAAGTG
CCTAGCTCGATACATAAACGGGTCTCTCTGGTTAGACCAGATCTGAGCCTGGGAGCTCTCTGGCTAACTA
GGGAACCCACTGCTTAAGCCTCAATAAAGCTTGCCTTGAGTGCTTCAAGTAGTGTGTGCCCGTCTGTTGT
GTGACTCTGGTAACTAGAGATCCCTCAGACCCTTTTAGTCAGTGTGGAAAATCTCTAGCAGTGGCGCCCG
AACAGGGACTTGAAAGCGAAAGGGAAACCAGAGGAGCTCTCTCGACGCAGGACTCGGCTTGCTGAAGCGC
GCACGGCAAGAGGCGAGGGGCGGCGACTGGTGAGTACGCCAAAAATTTTGACTAGCGGAGGCTAGAAGGA
GAGAGATGGGTGCGAGAGCGTCAGTATTAAGCGGGGGAGAATTAGATCGCGATGGGAAAAAATTCGGTTA
AGGCCAGGGGGAAAGAAAAAATATAAATTAAAACATATAGTATGGGCAAGCAGGGAGCTAGAACGATTCG
CAGTTAATCCTGGCCTGTTAGAAACATCAGAAGGCTGTAGACAAATACTGGGACAGCTACAACCATCCCT
TCAGACAGGATCAGAAGAACTTAGATCATTATATAATACAGTAGCAACCCTCTATTGTGTGCATCAAAGG
ATAGAGATAAAAGACACCAAGGAAGCTTTAGACAAGATAGAGGAAGAGCAAAACAAAAGTAAGACCACCG
CACAGCAAGCGGCCGCTGATCTTCAGACCTGGAGGAGGAGATATGAGGGACAATTGGAGAAGTGAATTAT
ATAAATATAAAGTAGTAAAAATTGAACCATTAGGAGTAGCACCCACCAAGGCAAAGAGAAGAGTGGTGCA
GAGAGAAAAAAGAGCAGTGGGAATAGGAGCTTTGTTCCTTGGGTTCTTGGGAGCAGCAGGAAGCACTATG
GGCGCAGCGTCAATGACGCTGACGGTACAGGCCAGACAATTATTGTCTGGTATAGTGCAGCAGCAGAACA
ATTTGCTGAGGGCTATTGAGGCGCAACAGCATCTGTTGCAACTCACAGTCTGGGGCATCAAGCAGCTCCA
GGCAAGAATCCTGGCTGTGGAAAGATACCTAAAGGATCAACAGCTCCTGGGGATTTGGGGTTGCTCTGGA
AAACTCATTTGCACCACTGCTGTGCCTTGGAATGCTAGTTGGAGTAATAAATCTCTGGAACAGATTTGGA
ATCACACGACCTGGATGGAGTGGGACAGAGAAATTAACAATTACACAAGCTTAATACACTCCTTAATTGA
AGAATCGCAAAACCAGCAAGAAAAGAATGAACAAGAATTATTGGAATTAGATAAATGGGCAAGTTTGTGG
AATTGGTTTAACATAACAAATTGGCTGTGGTATATAAAATTATTCATAATGATAGTAGGAGGCTTGGTAG
GTTTAAGAATAGTTTTTGCTGTACTTTCTATAGTGAATAGAGTTAGGCAGGGATATTCACCATTATCGTT
TCAGACCCACCTCCCAACCCCGAGGGGACCCGACAGGCCCGAAGGAATAGAAGAAGAAGGTGGAGAGAGA
GACAGAGACAGATCCATTCGATTAGTGAACGGATCTCGACGGTATCGATAAGCTTGGGAGTTCCGCGTTA
CATAACTTACGGTAAATGGCCCGCCTGGCTGACCGCCCAACGACCCCCGCCCATTGACGTCAATAATGAC
GTATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAACT
GCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAAT
GGCCCGCCTGGCATTATGCCCAGTACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACGTATT
AGTCATCGCTATTACCATGGTGATGCGGTTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTGACTCA
CGGGGATTTCCAAGTCTCCACCCCATTGACGTCAATGGGAGTTTGTTTTGGCACCAAAATCAACGGGACT
TTCCAAAATGTCGTAACAACTCCGCCCCATTGACGCAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTA
TATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGCCTGGAGACGCCATCCACGCTGTTTTGACCTCCAT
AGAAGACACCGACTCTAGAGGATCCACTAGTCCAGTGTGGTGGAATTCTGCAGATATCAACAAGTTTGTA
CAAAAAAGCTGAACGAGAAACGTAAAATGATATAAATATCAATATATTAAATTAGATTTTGCATAAAAAA
CAGACTACATAATACTGTAAAACACAACATATCCAGTCACTATGGCGGCCGCATTAGGCACCCCAGGCTT
TACACTTTATGCTTCCGGCTCGTATAATGTGTGGATTTTGAGTTAGGATCCGGCGAGATTTTCAGGAGCT
AAGGAAGCTAAAATGGAGAAAAAAATCACTGGATATACCACCGTTGATATATCCCAATGGCATCGTAAAG
AACATTTTGAGGCATTTCAGTCAGTTGCTCAATGTACCTATAACCAGACCGTTCAGCTGGATATTACGGC
CTTTTTAAAGACCGTAAAGAAAAATAAGCACAAGTTTTATCCGGCCTTTATTCACATTCTTGCCCGCCTG
ATGAATGCTCATCCGGAATTCCGTATGGCAATGAAAGACGGTGAGCTGGTGATATGGGATAGTGTTCACC
CTTGTTACACCGTTTTCCATGAGCAAACTGAAACGTTTTCATCGCTCTGGAGTGAATACCACGACGATTT
CCGGCAGTTTCTACACATATATTCGCAAGATGTGGCGTGTTACGGTGAAAACCTGGCCTATTTCCCTAAA
GGGTTTATTGAGAATATGTTTTTCGTCTCAGCCAATCCCTGGGTGAGTTTCACCAGTTTTGATTTAAACG
TGGCCAATATGGACAACTTCTTCGCCCCCGTTTTCACCATGGGCAAATATTATACGCAAGGCGACAAGGT
GCTGATGCCGCTGGCGATTCAGGTTCATCATGCCGTCTGTGATGGCTTCCATGTCGGCAGAATGCTTAAT
GAATTACAACAGTACTGCGATGAGTGGCAGGGCGGGGCGTAAAGATCTGGATCCGGCTTACTAAAAGCCA
GATAACAGTATGCGTATTTGCGCGCTGATTTTTGCGGTATAAGAATATATACTGATATGTATACCCGAAG
TATGTCAAAAAGAGGTGTGCTATGAAGCAGCGTATTACAGTGACAGTTGACAGCGACAGCTATCAGTTGC
TCAAGGCATATATGATGTCAATATCTCCGGTCTGGTAAGCACAACCATGCAGAATGAAGCCCGTCGTCTG
CGTGCCGAACGCTGGAAAGCGGAAAATCAGGAAGGGATGGCTGAGGTCGCCCGGTTTATTGAAATGAACG
GCTCTTTTGCTGACGAGAACAGGGACTGGTGAAATGCAGTTTAAGGTTTACACCTATAAAAGAGAGAGCC

Table 17 (continued) Nucleotide sequence of plasmid pLenti6/V5-DEST (SEQ ID NO: 105).

GTTATCGTCTGTTTGTGGATGTACAGAGTGATATTATTGACACGCCCGGGCGACGGATGGTGATCCCCCT
GGCCAGTGCACGTCTGCTGTCAGATAAAGTCTCCCGTGAACTTTACCCGGTGGTGCATATCGGGGATGAA
AGCTGGCGCATGATGACCACCGATATGGCCAGTGTGCCGGTCTCCGTTATCGGGGAAGAAGTGGCTGATC
TCAGCCACCGCGAAAATGACATCAAAAACGCCATTAACCTGATGTTCTGGGGAATATAAATGTCAGGCTC
CGTTATACACAGCCAGTCTGCAGGTCGACCATAGTGACTGGATATGTTGTGTTTTACAGTATTATGTAGT
CTGTTTTTTATGCAAAATCTAATTTAATATATTGATATTTATATCATTTTACGTTTCTCGTTCAGCTTTC
TTGTACAAAGTGGTTGATATCCAGCACAGTGGCGGCCGCTCGAGTCTAGAGGGCCCGCGGTTCGAAGGTA
AGCCTATCCCTAACCCTCTCCTCGGTCTCGATTCTACGCGTACCGGTTAGTAATGAGTTTGGAATTAATT
CTGTGGAATGTGTGTCAGTTAGGGTGTGGAAAGTCCCCAGGCTCCCCAGGCAGGCAGAAGTATGCAAAGC
ATGCATCTCAATTAGTCAGCAACCAGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCAGAAGTATGCAAA
GCATGCATCTCAATTAGTCAGCAACCATAGTCCCGCCCCTAACTCCGCCCATCCCGCCCCTAACTCCGCC
CAGTTCCGCCCATTCTCCGCCCCATGGCTGACTAATTTTTTTTATTTATGCAGAGGCCGAGGCCGCCTCT
GCCTCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGGCCTAGGCTTTTGCAAAAAGCTCCCGG
GAGCTTGTATATCCATTTTCGGATCTGATCAGCACGTGTTGACAATTAATCATCGGCATAGTATATCGGC
ATAGTATAATACGACAAGGTGAGGAACTAAACCATGGCCAAGCCTTTGTCTCAAGAAGAATCCACCCTCA
TTGAAAGAGCAACGGCTACAATCAACAGCATCCCCATCTCTGAAGACTACAGCGTCGCCAGCGCAGCTCT
CTCTAGCGACGGCCGCATCTTCACTGGTGTCAATGTATATCATTTTACTGGGGGACCTTGTGCAGAACTC
GTGGTGCTGGGCACTGCTGCTGCTGCGGCAGCTGGCAACCTGACTTGTATCGTCGCGATCGGAAATGAGA
ACAGGGGCATCTTGAGCCCCTGCGGACGGTGCCGACAGGTGCTTCTCGATCTGCATCCTGGGATCAAAGC
CATAGTGAAGGACAGTGATGGACAGCCGACGGCAGTTGGGATTCGTGAATTGCTGCCCTCTGGTTATGTG
TGGGAGGGCTAAGCACAATTCGAGCTCGGTACCTTTAAGACCAATGACTTACAAGGCAGCTGTAGATCTT
AGCCACTTTTTAAAAGAAAAGGGGGGACTGGAAGGGCTAATTCACTCCCAACGAAGACAAGATCTGCTTT
TTGCTTGTACTGGGTCTCTCTGGTTAGACCAGATCTGAGCCTGGGAGCTCTCTGGCTAACTAGGGAACCC
ACTGCTTAAGCCTCAATAAAGCTTGCCTTGAGTGCTTCAAGTAGTGTGTGCCCGTCTGTTGTGTGACTCT
GGTAACTAGAGATCCCTCAGACCCTTTTAGTCAGTGTGGAAAATCTCTAGCAGTAGTAGTTCATGTCATC
TTATTATTCAGTATTTATAACTTGCAAAGAAATGAATATCAGAGAGTGAGAGGAACTTGTTTATTGCAGC
TTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTCACAAATAAAGCATTTTTTTCACTGCATTCT
AGTTGTGGTTTGTCCAAACTCATCAATGTATCTTATCATGTCTGGCTCTAGCTATCCCGCCCCTAACTCC
GCCCATCCCGCCCCTAACTCCGCCCAGTTCCGCCCATTCTCCGCCCCATGGCTGACTAATTTTTTTTATT
TATGCAGAGGCCGAGGCCGCCTCGGCCTCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGGCC
TAGGGACGTACCCAATTCGCCCTATAGTGAGTCGTATTACGCGCGCTCACTGGCCGTCGTTTTACAACGT
CGTGACTGGGAAAACCCTGGCGTTACCCAACTTAATCGCCTTGCAGCACATCCCCCTTTCGCCAGCTGGC
GTAATAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAATGGGACGC
GCCCTGTAGCGGCGCATTAAGCGCGGCGGGTGTGGTGGTTACGCGCAGCGTGACCGCTACACTTGCCAGC
GCCCTAGCGCCCGCTCCTTTCGCTTTCTTCCCTTCCTTTCTCGCCACGTTCGCCGGCTTTCCCCGTCAAG
CTCTAAATCGGGGGCTCCCTTTAGGGTTCCGATTTAGTGCTTTACGGCACCTCGACCCCAAAAAACTTGA
TTAGGGTGATGGTTCACGTAGTGGGCCATCGCCCTGATAGACGGTTTTTCGCCCTTTGACGTTGGAGTCC
ACGTTCTTTAATAGTGGACTCTTGTTCCAAACTGGAACAACACTCAACCCTATCTCGGTCTATTCTTTTG
ATTTATAAGGGATTTTGCCGATTTCGGCCTATTGGTTAAAAAATGAGCTGATTTAACAAAAATTTAACGC
GAATTTTAACAAAATATTAACGCTTACAATTTAGGTGGCACTTTTCGGGGAAATGTGCGCGGAACCCCTA
TTTGTTTATTTTTCTAAATACATTCAAATATGTATCCGCTCATGAGACAATAACCCTGATAAATGCTTCA
ATAATATTGAAAAAGGAAGAGTATGAGTATTCAACATTTCCGTGTCGCCCTTATTCCCTTTTTTGCGGCA
TTTTGCCTTCCTGTTTTTGCTCACCCAGAAACGCTGGTGAAAGTAAAAGATGCTGAAGATCAGTTGGGTG
CACGAGTGGGTTACATCGAACTGGATCTCAACAGCGGTAAGATCCTTGAGAGTTTTCGCCCCGAAGAACG
TTTTCCAATGATGAGCACTTTTAAAGTTCTGCTATGTGGCGCGGTATTATCCCGTATTGACGCCGGGCAA
GAGCAACTCGGTCGCCGCATACACTATTCTCAGAATGACTTGGTTGAGTACTCACCAGTCACAGAAAAGC
ATCTTACGGATGGCATGACAGTAAGAGAATTATGCAGTGCTGCCATAACCATGAGTGATAACACTGCGGC
CAACTTACTTCTGACAACGATCGGAGGACCGAAGGAGCTAACCGCTTTTTTGCACAACATGGGGGATCAT
GTAACTCGCCTTGATCGTTGGGAACCGGAGCTGAATGAAGCCATACCAAACGACGAGCGTGACACCACGA
TGCCTGTAGCAATGGCAACAACGTTGCGCAAACTATTAACTGGCGAACTACTTACTCTAGCTTCCCGGCA
ACAATTAATAGACTGGATGGAGGCGGATAAAGTTGCAGGACCACTTCTGCGCTCGGCCCTTCCGGCTGGC
TGGTTTATTGCTGATAAATCTGGAGCCGGTGAGCGTGGGTCTCGCGGTATCATTGCAGCACTGGGGCCAG
ATGGTAAGCCCTCCCGTATCGTAGTTATCTACACGACGGGGAGTCAGGCAACTATGGATGAACGAAATAG
ACAGATCGCTGAGATAGGTGCCTCACTGATTAAGCATTGGTAACTGTCAGACCAAGTTTACTCATATATA

Table 17 (continued) Nucleotide sequence of plasmid pLenti6/V5-DEST (SEQ ID NO: 105).

CTTTAGATTGATTTAAAACTTCATTTTTAATTTAAAAGGATCTAGGTGAAGATCCTTTTTGATAATCTCA
TGACCAAAATCCCTTAACGTGAGTTTTCGTTCCACTGAGCGTCAGACCCCGTAGAAAAGATCAAAGGATC
TTCTTGAGATCCTTTTTTTCTGCGCGTAATCTGCTGCTTGCAAACAAAAAAACCACCGCTACCAGCGGTG
GTTTGTTTGCCGGATCAAGAGCTACCAACTCTTTTTCCGAAGGTAACTGGCTTCAGCAGAGCGCAGATAC
CAAATACTGTTCTTCTAGTGTAGCCGTAGTTAGGCCACCACTTCAAGAACTCTGTAGCACCGCCTACATA
CCTCGCTCTGCTAATCCTGTTACCAGTGGCTGCTGCCAGTGGCGATAAGTCGTGTCTTACCGGGTTGGAC
TCAAGACGATAGTTACCGGATAAGGCGCAGCGGTCGGGCTGAACGGGGGGTTCGTGCACACAGCCCAGCT
TGGAGCGAACGACCTACACCGAACTGAGATACCTACAGCGTGAGCTATGAGAAAGCGCCACGCTTCCCGA
AGGGAGAAAGGCGGACAGGTATCCGGTAAGCGGCAGGGTCGGAACAGGAGAGCGCACGAGGGAGCTTCCA
GGGGGAAACGCCTGGTATCTTTATAGTCCTGTCGGGTTTCGCCACCTCTGACTTGAGCGTCGATTTTTGT
GATGCTCGTCAGGGGGGCGGAGCCTATGGAAAAACGCCAGCAACGCGGCCTTTTTACGGTTCCTGGCCTT
TTGCTGGCCTTTTGCTCACATGTTCTTTCCTGCGTTATCCCCTGATTCTGTGGATAACCGTATTACCGCC
TTTGAGTGAGCTGATACCGCTCGCCGCAGCCGAACGACCGAGCGCAGCGAGTCAGTGAGCGAGGAAGCGG
AAGAGCGCCCAATACGCAAACCGCCTCTCCCCGCGCGTTGGCCGATTCATTAATGCAGCTGGCACGACAG
GTTTCCCGACTGGAAAGCGGGCAGTGAGCGCAACGCAATTAATGTGAGTTAGCTCACTCATTAGGCACCC
CAGGCTTTACACTTTATGCTTCCGGCTCGTATGTTGTGTGGAATTGTGAGCGGATAACAATTTCACACAG
GAAACAGCTATGACCATGATTACGCCAAGCGCGCAATTAACCCTCACTAAAGGGAACAAAAGCTGGAGCT
GCAAGCTT

Please amend Table 18 on pages 435 and 436 as follows:

Table 18: Nucleotide sequence of plasmid pLenti6/V5-D-TOPO™ (SEQ ID NO: 106).

AATGTAGTCTTATGCAATACTCTTGTAGTCTTGCAACATGGTAACGATGAGTTAGCAACATGCCTTACAA
GGAGAGAAAAAGCACCGTGCATGCCGATTGGTGGAAGTAAGGTGGTACGATCGTGCCTTATTAGGAAGGC
AACAGACGGGTCTGACATGGATTGGACGAACCACTGAATTGCCGCATTGCAGAGATATTGTATTTAAGTG
CCTAGCTCGATACATAAACGGGTCTCTCTGGTTAGACCAGATCTGAGCCTGGGAGCTCTCTGGCTAACTA
GGGAACCCACTGCTTAAGCCTCAATAAAGCTTGCCTTGAGTGCTTCAAGTAGTGTGTGCCCGTCTGTTGT
GTGACTCTGGTAACTAGAGATCCCTCAGACCCTTTTAGTCAGTGTGGAAAATCTCTAGCAGTGGCGCCCG
AACAGGGACTTGAAAGCGAAAGGGAAACCAGAGGAGCTCTCTCGACGCAGGACTCGGCTTGCTGAAGCGC
GCACGGCAAGAGGCGAGGGGCGGCGACTGGTGAGTACGCCAAAAATTTTGACTAGCGGAGGCTAGAAGGA
GAGAGATGGGTGCGAGAGCGTCAGTATTAAGCGGGGGAGAATTAGATCGCGATGGGAAAAAATTCGGTTA
AGGCCAGGGGGAAAGAAAAAATATAAATTAAAACATATAGTATGGGCAAGCAGGGAGCTAGAACGATTCG
CAGTTAATCCTGGCCTGTTAGAAACATCAGAAGGCTGTAGACAAATACTGGGACAGCTACAACCATCCCT
TCAGACAGGATCAGAAGAACTTAGATCATTATATAATACAGTAGCAACCCTCTATTGTGTGCATCAAAGG
ATAGAGATAAAAGACACCAAGGAAGCTTTAGACAAGATAGAGGAAGAGCAAAACAAAAGTAAGACCACCG
CACAGCAAGCGGCCGCTGATCTTCAGACCTGGAGGAGGAGATATGAGGGACAATTGGAGAAGTGAATTAT
ATAAATATAAAGTAGTAAAAATTGAACCATTAGGAGTAGCACCCACCAAGGCAAAGAGAAGAGTGGTGCA
GAGAGAAAAAAGAGCAGTGGGAATAGGAGCTTTGTTCCTTGGGTTCTTGGGAGCAGCAGGAAGCACTATG
GGCGCAGCGTCAATGACGCTGACGGTACAGGCCAGACAATTATTGTCTGGTATAGTGCAGCAGCAGAACA
ATTTGCTGAGGGCTATTGAGGCGCAACAGCATCTGTTGCAACTCACAGTCTGGGGCATCAAGCAGCTCCA
GGCAAGAATCCTGGCTGTGGAAAGATACCTAAAGGATCAACAGCTCCTGGGGATTTGGGGTTGCTCTGGA
AAACTCATTTGCACCACTGCTGTGCCTTGGAATGCTAGTTGGAGTAATAAATCTCTGGAACAGATTTGGA
ATCACACGACCTGGATGGAGTGGGACAGAGAAATTAACAATTACACAAGCTTAATACACTCCTTAATTGA
AGAATCGCAAAACCAGCAAGAAAAGAATGAACAAGAATTATTGGAATTAGATAAATGGGCAAGTTTGTGG
AATTGGTTTAACATAACAAATTGGCTGTGGTATATAAAATTATTCATAATGATAGTAGGAGGCTTGGTAG
GTTTAAGAATAGTTTTTGCTGTACTTTCTATAGTGAATAGAGTTAGGCAGGGATATTCACCATTATCGTT
TCAGACCCACCTCCCAACCCCGAGGGGACCCGACAGGCCCGAAGGAATAGAAGAAGAAGGTGGAGAGAGA
GACAGAGACAGATCCATTCGATTAGTGAACGGATCTCGACGGTATCGATAAGCTTGGGAGTTCCGCGTTA
CATAACTTACGGTAAATGGCCCGCCTGGCTGACCGCCCAACGACCCCCGCCCATTGACGTCAATAATGAC
GTATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAACT
GCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAAT
GGCCCGCCTGGCATTATGCCCAGTACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACGTATT
AGTCATCGCTATTACCATGGTGATGCGGTTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTGACTCA
CGGGGATTTCCAAGTCTCCACCCCATTGACGTCAATGGGAGTTTGTTTTGGCACCAAAATCAACGGGACT
TTCCAAAATGTCGTAACAACTCCGCCCCATTGACGCAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTA
TATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGCCTGGAGACGCCATCCACGCTGTTTTGACCTCCAT
AGAAGACACCGACTCTAGAGGATCCACTAGTCCAGTGTGGTGGAATTGATCCCTTCACCAAGGGCTCGAG
TCTAGAGGGCCCGCGGTTCGAAGGTAAGCCTATCCCTAACCCTCTCCTCGGTCTCGATTCTACGCGTACC
GGTTAGTAATGAGTTTGGAATTAATTCTGTGGAATGTGTGTCAGTTAGGGTGTGGAAAGTCCCCAGGCTC
CCCAGGCAGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCAGGTGTGGAAAGTCCCCAGG
CTCCCCAGCAGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCATAGTCCCGCCCCTAACT
CCGCCCATCCCGCCCCTAACTCCGCCCAGTTCCGCCCATTCTCCGCCCCATGGCTGACTAATTTTTTTTA
TTTATGCAGAGGCCGAGGCCGCCTCTGCCTCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGG
CCTAGGCTTTTGCAAAAAGCTCCCGGGAGCTTGTATATCCATTTTCGGATCTGATCAGCACGTGTTGACA
ATTAATCATCGGCATAGTATATCGGCATAGTATAATACGACAAGGTGAGGAACTAAACCATGGCCAAGCC
TTTGTCTCAAGAAGAATCCACCCTCATTGAAAGAGCAACGGCTACAATCAACAGCATCCCCATCTCTGAA
GACTACAGCGTCGCCAGCGCAGCTCTCTCTAGCGACGGCCGCATCTTCACTGGTGTCAATGTATATCATT
TTACTGGGGGACCTTGTGCAGAACTCGTGGTGCTGGGCACTGCTGCTGCTGCGGCAGCTGGCAACCTGAC
TTGTATCGTCGCGATCGGAAATGAGAACAGGGGCATCTTGAGCCCCTGCGGACGGTGCCGACAGGTGCTT
CTCGATCTGCATCCTGGGATCAAAGCCATAGTGAAGGACAGTGATGGACAGCCGACGGCAGTTGGGATTC
GTGAATTGCTGCCCTCTGGTTATGTGTGGGAGGGCTAAGCACAATTCGAGCTCGGTACCTTTAAGACCAA
TGACTTACAAGGCAGCTGTAGATCTTAGCCACTTTTTAAAAGAAAAGGGGGGACTGGAAGGGCTAATTCA
CTCCCAACGAAGACAAGATCTGCTTTTTGCTTGTACTGGGTCTCTCTGGTTAGACCAGATCTGAGCCTGG
GAGCTCTCTGGCTAACTAGGGAACCCACTGCTTAAGCCTCAATAAAGCTTGCCTTGAGTGCTTCAAGTAG

Table 18 (continued) Nucleotide sequence of plasmid pLenti6/V5-D-TOPO™ (SEQ ID NO: 106).

TGTGTGCCCGTCTGTTGTGTGACTCTGGTAACTAGAGATCCCTCAGACCCTTTTAGTCAGTGTGGAAAAT
CTCTAGCAGTAGTAGTTCATGTCATCTTATTATTCAGTATTTATAACTTGCAAAGAAATGAATATCAGAG
AGTGAGAGGAACTTGTTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTCACAA
ATAAAGCATTTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAAACTCATCAATGTATCTTATCATGTCTG
GCTCTAGCTATCCCGCCCCTAACTCCGCCCATCCCGCCCCTAACTCCGCCCAGTTCCGCCCATTCTCCGC
CCCATGGCTGACTAATTTTTTTTATTTATGCAGAGGCCGAGGCCGCCTCGGCCTCTGAGCTATTCCAGAA
GTAGTGAGGAGGCTTTTTTGGAGGCCTAGGGACGTACCCAATTCGCCCTATAGTGAGTCGTATTACGCGC
GCTCACTGGCCGTCGTTTTACAACGTCGTGACTGGGAAAACCCTGGCGTTACCCAACTTAATCGCCTTGC
AGCACATCCCCCTTTCGCCAGCTGGCGTAATAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGTTG
CGCAGCCTGAATGGCGAATGGGACGCGCCCTGTAGCGGCGCATTAAGCGCGGCGGGTGTGGTGGTTACGC
GCAGCGTGACCGCTACACTTGCCAGCGCCCTAGCGCCCGCTCCTTTCGCTTTCTTCCCTTCCTTTCTCGC
CACGTTCGCCGGCTTTCCCCGTCAAGCTCTAAATCGGGGGCTCCCTTTAGGGTTCCGATTTAGTGCTTTA
CGGCACCTCGACCCCAAAAAACTTGATTAGGGTGATGGTTCACGTAGTGGGCCATCGCCCTGATAGACGG
TTTTTCGCCCTTTGACGTTGGAGTCCACGTTCTTTAATAGTGGACTCTTGTTCCAAACTGGAACAACACT
CAACCCTATCTCGGTCTATTCTTTTGATTTATAAGGGATTTTGCCGATTTCGGCCTATTGGTTAAAAAAT
GAGCTGATTTAACAAAAATTTAACGCGAATTTTAACAAAATATTAACGCTTACAATTTAGGTGGCACTTT
TCGGGGAAATGTGCGCGGAACCCCTATTTGTTTATTTTTCTAAATACATTCAAATATGTATCCGCTCATG
AGACAATAACCCTGATAAATGCTTCAATAATATTGAAAAAGGAAGAGTATGAGTATTCAACATTTCCGTG
TCGCCCTTATTCCCTTTTTTGCGGCATTTTGCCTTCCTGTTTTTGCTCACCCAGAAACGCTGGTGAAAGT
AAAAGATGCTGAAGATCAGTTGGGTGCACGAGTGGGTTACATCGAACTGGATCTCAACAGCGGTAAGATC
CTTGAGAGTTTTCGCCCCGAAGAACGTTTTCCAATGATGAGCACTTTTAAAGTTCTGCTATGTGGCGCGG
TATTATCCCGTATTGACGCCGGGCAAGAGCAACTCGGTCGCCGCATACACTATTCTCAGAATGACTTGGT
TGAGTACTCACCAGTCACAGAAAAGCATCTTACGGATGGCATGACAGTAAGAGAATTATGCAGTGCTGCC
ATAACCATGAGTGATAACACTGCGGCCAACTTACTTCTGACAACGATCGGAGGACCGAAGGAGCTAACCG
CTTTTTTGCACAACATGGGGGATCATGTAACTCGCCTTGATCGTTGGGAACCGGAGCTGAATGAAGCCAT
ACCAAACGACGAGCGTGACACCACGATGCCTGTAGCAATGGCAACAACGTTGCGCAAACTATTAACTGGC
GAACTACTTACTCTAGCTTCCCGGCAACAATTAATAGACTGGATGGAGGCGGATAAAGTTGCAGGACCAC
TTCTGCGCTCGGCCCTTCCGGCTGGCTGGTTTATTGCTGATAAATCTGGAGCCGGTGAGCGTGGGTCTCG
CGGTATCATTGCAGCACTGGGGCCAGATGGTAAGCCCTCCCGTATCGTAGTTATCTACACGACGGGGAGT
CAGGCAACTATGGATGAACGAAATAGACAGATCGCTGAGATAGGTGCCTCACTGATTAAGCATTGGTAAC
TGTCAGACCAAGTTTACTCATATATACTTTAGATTGATTTAAAACTTCATTTTTAATTTAAAAGGATCTA
GGTGAAGATCCTTTTTGATAATCTCATGACCAAAATCCCTTAACGTGAGTTTTCGTTCCACTGAGCGTCA
GACCCCGTAGAAAAGATCAAAGGATCTTCTTGAGATCCTTTTTTTCTGCGCGTAATCTGCTGCTTGCAAA
CAAAAAAACCACCGCTACCAGCGGTGGTTTGTTTGCCGGATCAAGAGCTACCAACTCTTTTTCCGAAGGT
AACTGGCTTCAGCAGAGCGCAGATACCAAATACTGTTCTTCTAGTGTAGCCGTAGTTAGGCCACCACTTC
AAGAACTCTGTAGCACCGCCTACATACCTCGCTCTGCTAATCCTGTTACCAGTGGCTGCTGCCAGTGGCG
ATAAGTCGTGTCTTACCGGGTTGGACTCAAGACGATAGTTACCGGATAAGGCGCAGCGGTCGGGCTGAAC
GGGGGGTTCGTGCACACAGCCCAGCTTGGAGCGAACGACCTACACCGAACTGAGATACCTACAGCGTGAG
CTATGAGAAAGCGCCACGCTTCCCGAAGGGAGAAAGGCGGACAGGTATCCGGTAAGCGGCAGGGTCGGAA
CAGGAGAGCGCACGAGGGAGCTTCCAGGGGGAAACGCCTGGTATCTTTATAGTCCTGTCGGGTTTCGCCA
CCTCTGACTTGAGCGTCGATTTTTGTGATGCTCGTCAGGGGGGCGGAGCCTATGGAAAAACGCCAGCAAC
GCGGCCTTTTTACGGTTCCTGGCCTTTTGCTGGCCTTTTGCTCACATGTTCTTTCCTGCGTTATCCCCTG
ATTCTGTGGATAACCGTATTACCGCCTTTGAGTGAGCTGATACCGCTCGCCGCAGCCGAACGACCGAGCG
CAGCGAGTCAGTGAGCGAGGAAGCGGAAGAGCGCCCAATACGCAAACCGCCTCTCCCCGCGCGTTGGCCG
ATTCATTAATGCAGCTGGCACGACAGGTTTCCCGACTGGAAAGCGGGCAGTGAGCGCAACGCAATTAATG
TGAGTTAGCTCACTCATTAGGCACCCCAGGCTTTACACTTTATGCTTCCGGCTCGTATGTTGTGTGGAAT
TGTGAGCGGATAACAATTTCACACAGGAAACAGCTATGACCATGATTACGCCAAGCGCGCAATTAACCCT
CACTAAAGGGAACAAAAGCTGGAGCTGCAAGCTT

Please amend Table 19 on pages 437-439 as follows:

Table 19: Nucleotide sequence of pLenti4/V5-DEST (SEQ ID NO: 107).

AATGTAGTCTTATGCAATACTCTTGTAGTCTTGCAACATGGTAACGATGAGTTAGCAACATGCCTTACAA
GGAGAGAAAAAGCACCGTGCATGCCGATTGGTGGAAGTAAGGTGGTACGATCGTGCCTTATTAGGAAGGC
AACAGACGGGTCTGACATGGATTGGACGAACCACTGAATTGCCGCATTGCAGAGATATTGTATTTAAGTG
CCTAGCTCGATACATAAACGGGTCTCTCTGGTTAGACCAGATCTGAGCCTGGGAGCTCTCTGGCTAACTA
GGGAACCCACTGCTTAAGCCTCAATAAAGCTTGCCTTGAGTGCTTCAAGTAGTGTGTGCCCGTCTGTTGT
GTGACTCTGGTAACTAGAGATCCCTCAGACCCTTTTAGTCAGTGTGGAAAATCTCTAGCAGTGGCGCCCG
AACAGGGACTTGAAAGCGAAAGGGAAACCAGAGGAGCTCTCTCGACGCAGGACTCGGCTTGCTGAAGCGC
GCACGGCAAGAGGCGAGGGGCGGCGACTGGTGAGTACGCCAAAAATTTTGACTAGCGGAGGCTAGAAGGA
GAGAGATGGGTGCGAGAGCGTCAGTATTAAGCGGGGGAGAATTAGATCGCGATGGGAAAAAATTCGGTTA
AGGCCAGGGGGAAAGAAAAAATATAAATTAAAACATATAGTATGGGCAAGCAGGGAGCTAGAACGATTCG
CAGTTAATCCTGGCCTGTTAGAAACATCAGAAGGCTGTAGACAAATACTGGGACAGCTACAACCATCCCT
TCAGACAGGATCAGAAGAACTTAGATCATTATATAATACAGTAGCAACCCTCTATTGTGTGCATCAAAGG
ATAGAGATAAAAGACACCAAGGAAGCTTTAGACAAGATAGAGGAAGAGCAAAACAAAAGTAAGACCACCG
CACAGCAAGCGGCCGCTGATCTTCAGACCTGGAGGAGGAGATATGAGGGACAATTGGAGAAGTGAATTAT
ATAAATATAAAGTAGTAAAAATTGAACCATTAGGAGTAGCACCCACCAAGGCAAAGAGAAGAGTGGTGCA
GAGAGAAAAAAGAGCAGTGGGAATAGGAGCTTTGTTCCTTGGGTTCTTGGGAGCAGCAGGAAGCACTATG
GGCGCAGCGTCAATGACGCTGACGGTACAGGCCAGACAATTATTGTCTGGTATAGTGCAGCAGCAGAACA
ATTTGCTGAGGGCTATTGAGGCGCAACAGCATCTGTTGCAACTCACAGTCTGGGGCATCAAGCAGCTCCA
GGCAAGAATCCTGGCTGTGGAAAGATACCTAAAGGATCAACAGCTCCTGGGGATTTGGGGTTGCTCTGGA
AAACTCATTTGCACCACTGCTGTGCCTTGGAATGCTAGTTGGAGTAATAAATCTCTGGAACAGATTTGGA
ATCACACGACCTGGATGGAGTGGGACAGAGAAATTAACAATTACACAAGCTTAATACACTCCTTAATTGA
AGAATCGCAAAACCAGCAAGAAAAGAATGAACAAGAATTATTGGAATTAGATAAATGGGCAAGTTTGTGG
AATTGGTTTAACATAACAAATTGGCTGTGGTATATAAAATTATTCATAATGATAGTAGGAGGCTTGGTAG
GTTTAAGAATAGTTTTTGCTGTACTTTCTATAGTGAATAGAGTTAGGCAGGGATATTCACCATTATCGTT
TCAGACCCACCTCCCAACCCCGAGGGGACCCGACAGGCCCGAAGGAATAGAAGAAGAAGGTGGAGAGAGA
GACAGAGACAGATCCATTCGATTAGTGAACGGATCTCGACGGTATCGATAAGCTTGGGAGTTCCGCGTTA
CATAACTTACGGTAAATGGCCCGCCTGGCTGACCGCCCAACGACCCCCGCCCATTGACGTCAATAATGAC
GTATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAACT
GCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAAT
GGCCCGCCTGGCATTATGCCCAGTACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACGTATT
AGTCATCGCTATTACCATGGTGATGCGGTTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTGACTCA
CGGGGATTTCCAAGTCTCCACCCCATTGACGTCAATGGGAGTTTGTTTTGGCACCAAAATCAACGGGACT
TTCCAAAATGTCGTAACAACTCCGCCCCATTGACGCAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTA
TATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGCCTGGAGACGCCATCCACGCTGTTTTGACCTCCAT
AGAAGACACCGACTCTAGAGGATCCACTAGTCCAGTGTGGTGGAATTCTGCAGATATCAACAAGTTTGTA
CAAAAAAGCTGAACGAGAAACGTAAAATGATATAAATATCAATATATTAAATTAGATTTTGCATAAAAAA
CAGACTACATAATACTGTAAAACACAACATATCCAGTCACTATGGCGGCCGCATTAGGCACCCCAGGCTT
TACACTTTATGCTTCCGGCTCGTATAATGTGTGGATTTTGAGTTAGGATCCGGCGAGATTTTCAGGAGCT
AAGGAAGCTAAAATGGAGAAAAAAATCACTGGATATACCACCGTTGATATATCCCAATGGCATCGTAAAG
AACATTTTGAGGCATTTCAGTCAGTTGCTCAATGTACCTATAACCAGACCGTTCAGCTGGATATTACGGC
CTTTTTAAAGACCGTAAAGAAAAATAAGCACAAGTTTTATCCGGCCTTTATTCACATTCTTGCCCGCCTG
ATGAATGCTCATCCGGAATTCCGTATGGCAATGAAAGACGGTGAGCTGGTGATATGGGATAGTGTTCACC
CTTGTTACACCGTTTTCCATGAGCAAACTGAAACGTTTTCATCGCTCTGGAGTGAATACCACGACGATTT
CCGGCAGTTTCTACACATATATTCGCAAGATGTGGCGTGTTACGGTGAAAACCTGGCCTATTTCCCTAAA
GGGTTTATTGAGAATATGTTTTTCGTCTCAGCCAATCCCTGGGTGAGTTTCACCAGTTTTGATTTAAACG
TGGCCAATATGGACAACTTCTTCGCCCCCGTTTTCACCATGGGCAAATATTATACGCAAGGCGACAAGGT
GCTGATGCCGCTGGCGATTCAGGTTCATCATGCCGTCTGTGATGGCTTCCATGTCGGCAGAATGCTTAAT
GAATTACAACAGTACTGCGATGAGTGGCAGGGCGGGGCGTAAAGATCTGGATCCGGCTTACTAAAAGCCA
GATAACAGTATGCGTATTTGCGCGCTGATTTTTGCGGTATAAGAATATATACTGATATGTATACCCGAAG
TATGTCAAAAAGAGGTGTGCTATGAAGCAGCGTATTACAGTGACAGTTGACAGCGACAGCTATCAGTTGC
TCAAGGCATATATGATGTCAATATCTCCGGTCTGGTAAGCACAACCATGCAGAATGAAGCCCGTCGTCTG
CGTGCCGAACGCTGGAAAGCGGAAAATCAGGAAGGGATGGCTGAGGTCGCCCGGTTTATTGAAATGAACG

Table 19 (continued) Nucleotide sequence of pLenti4/V5-DEST (SEQ ID NO: 107).

GCTCTTTTGCTGACGAGAACAGGGACTGGTGAAATGCAGTTTAAGGTTTACACCTATAAAAGAGAGAGCC
GTTATCGTCTGTTTGTGGATGTACAGAGTGATATTATTGACACGCCCGGGCGACGGATGGTGATCCCCCT
GGCCAGTGCACGTCTGCTGTCAGATAAAGTCTCCCGTGAACTTTACCCGGTGGTGCATATCGGGGATGAA
AGCTGGCGCATGATGACCACCGATATGGCCAGTGTGCCGGTCTCCGTTATCGGGGAAGAAGTGGCTGATC
TCAGCCACCGCGAAAATGACATCAAAAACGCCATTAACCTGATGTTCTGGGGAATATAAATGTCAGGCTC
CGTTATACACAGCCAGTCTGCAGGTCGACCATAGTGACTGGATATGTTGTGTTTTACAGTATTATGTAGT
CTGTTTTTTATGCAAAATCTAATTTAATATATTGATATTTATATCATTTTACGTTTCTCGTTCAGCTTTC
TTGTACAAAGTGGTTGATATCCAGCACAGTGGCGGCCGCTCGAGTCTAGAGGGCCCGCGGTTCGAAGGTA
AGCCTATCCCTAACCCTCTCCTCGGTCTCGATTCTACGCGTACCGGTTAGTAATGAGTTTGGAATTAATT
CTGTGGAATGTGTGTCAGTTAGGGTGTGGAAAGTCCCCAGGCTCCCCAGGCAGGCAGAAGTATGCAAAGC
ATGCATCTCAATTAGTCAGCAACCAGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCAGAAGTATGCAAA
GCATGCATCTCAATTAGTCAGCAACCATAGTCCCGCCCCTAACTCCGCCCATCCCGCCCCTAACTCCGCC
CAGTTCCGCCCATTCTCCGCCCCATGGCTGACTAATTTTTTTTATTTATGCAGAGGCCGAGGCCGCCTCT
GCCTCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGGCCTAGGCTTTTGCAAAAAGCTCCCCC
TGTTGACAATTAATCATCGGCATAGTATATCGGCATAGTATAATACGACAAGGTGAGGAACTAAACCATG
GCCAAGTTGACCAGTGCCGTTCCGGTGCTCACCGCGCGCGACGTCGCCGGAGCGGTCGAGTTCTGGACCG
ACCGGCTCGGGTTCTCCCGGGACTTCGTGGAGGACGACTTCGCCGGTGTGGTCCGGGACGACGTGACCCT
GTTCATCAGCGCGGTCCAGGACCAGGTGGTGCCGGACAACACCCTGGCCTGGGTGTGGGTGCGCGGCCTG
GACGAGCTGTACGCCGAGTGGTCGGAGGTCGTGTCCACGAACTTCCGGGACGCCTCCGGGCCGGCCATGA
CCGAGATCGGCGAGCAGCCGTGGGGGCGGGAGTTCGCCCTGCGCGACCCGGCCGGCAACTGCGTGCACTT
CGTGGCCGAGGAGCAGGACTGACACGTGCTACGAGATTTAAATGGTACCTTTAAGACCAATGACTTACAA
GGCAGCTGTAGATCTTAGCCACTTTTTAAAAGAAAAGGGGGGACTGGAAGGGCTAATTCACTCCCAACGA
AGACAAGATCTGCTTTTTGCTTGTACTGGGTCTCTCTGGTTAGACCAGATCTGAGCCTGGGAGCTCTCTG
GCTAACTAGGGAACCCACTGCTTAAGCCTCAATAAAGCTTGCCTTGAGTGCTTCAAGTAGTGTGTGCCCG
TCTGTTGTGTGACTCTGGTAACTAGAGATCCCTCAGACCCTTTTAGTCAGTGTGGAAAATCTCTAGCAGT
AGTAGTTCATGTCATCTTATTATTCAGTATTTATAACTTGCAAAGAAATGAATATCAGAGAGTGAGAGGA
ACTTGTTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTCACAAATAAAGCATT
TTTTTCACTGCATTCTAGTTGTGGTTTGTCCAAACTCATCAATGTATCTTATCATGTCTGGCTCTAGCTA
TCCCGCCCCTAACTCCGCCCATCCCGCCCCTAACTCCGCCCAGTTCCGCCCATTCTCCGCCCCATGGCTG
ACTAATTTTTTTTATTTATGCAGAGGCCGAGGCCGCCTCGGCCTCTGAGCTATTCCAGAAGTAGTGAGGA
GGCTTTTTTGGAGGCCTAGGGACGTACCCAATTCGCCCTATAGTGAGTCGTATTACGCGCGCTCACTGGC
CGTCGTTTTACAACGTCGTGACTGGGAAAACCCTGGCGTTACCCAACTTAATCGCCTTGCAGCACATCCC
CCTTTCGCCAGCTGGCGTAATAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGA
ATGGCGAATGGACGCGCCCTGTAGCGGCGCATTAAGCGCGGCGGGTGTGGTGGTTACGCGCAGCGTGAC
CGCTACACTTGCCAGCGCCCTAGCGCCCGCTCCTTTCGCTTTCTTCCCTTCCTTTCTCGCCACGTTCGCC
GGCTTTCCCCGTCAAGCTCTAAATCGGGGGCTCCCTTTAGGGTTCCGATTTAGTGCTTTACGGCACCTCG
ACCCCAAAAAACTTGATTAGGGTGATGGTTCACGTAGTGGGCCATCGCCCTGATAGACGGTTTTTCGCCC
TTTGACGTTGGAGTCCACGTTCTTTAATAGTGGACTCTTGTTCCAAACTGGAACAACACTCAACCCTATC
TCGGTCTATTCTTTTGATTTATAAGGGATTTTGCCGATTTCGGCCTATTGGTTAAAAAATGAGCTGATTT
AACAAAAATTTAACGCGAATTTTAACAAAATATTAACGCTTACAATTTAGGTGGCACTTTTCGGGGAAAT
GTGCGCGGAACCCCTATTTGTTTATTTTTCTAAATACATTCAAATATGTATCCGCTCATGAGACAATAAC
CCTGATAAATGCTTCAATAATATTGAAAAAGGAAGAGTATGAGTATTCAACATTTCCGTGTCGCCCTTAT
TCCCTTTTTTGCGGCATTTTGCCTTCCTGTTTTTGCTCACCCAGAAACGCTGGTGAAAGTAAAAGATGCT
GAAGATCAGTTGGGTGCACGAGTGGGTTACATCGAACTGGATCTCAACAGCGGTAAGATCCTTGAGAGTT
TTCGCCCCGAAGAACGTTTTCCAATGATGAGCACTTTTAAAGTTCTGCTATGTGGCGCGGTATTATCCCG
TATTGACGCCGGGCAAGAGCAACTCGGTCGCCGCATACACTATTCTCAGAATGACTTGGTTGAGTACTCA
CCAGTCACAGAAAAGCATCTTACGGATGGCATGACAGTAAGAGAATTATGCAGTGCTGCCATAACCATGA
GTGATAACACTGCGGCCAACTTACTTCTGACAACGATCGGAGGACCGAAGGAGCTAACCGCTTTTTTGCA
CAACATGGGGGATCATGTAACTCGCCTTGATCGTTGGGAACCGGAGCTGAATGAAGCCATACCAAACGAC
GAGCGTGACACCACGATGCCTGTAGCAATGGCAACAACGTTGCGCAAACTATTAACTGGCGAACTACTTA
CTCTAGCTTCCCGGCAACAATTAATAGACTGGATGGAGGCGGATAAAGTTGCAGGACCACTTCTGCGCTC
GGCCCTTCCGGCTGGCTGGTTTATTGCTGATAAATCTGGAGCCGGTGAGCGTGGGTCTCGCGGTATCATT
GCAGCACTGGGGCCAGATGGTAAGCCCTCCCGTATCGTAGTTATCTACACGACGGGGAGTCAGGCAACTA
TGGATGAACGAAATAGACAGATCGCTGAGATAGGTGCCTCACTGATTAAGCATTGGTAACTGTCAGACCA
AGTTTACTCATATATACTTTAGATTGATTTAAAACTTCATTTTTAATTTAAAAGGATCTAGGTGAAGATC

Table 19. Nucleotide sequence of pLenti4/V5-DEST (SEQ ID NO: 107).

CTTTTTGATAATCTCATGACCAAAATCCCTTAACGTGAGTTTTCGTTCCACTGAGCGTCAGACCCCGTAG
AAAAGATCAAAGGATCTTCTTGAGATCCTTTTTTTCTGCGCGTAATCTGCTGCTTGCAAACAAAAAAACC
ACCGCTACCAGCGGTGGTTTGTTTGCCGGATCAAGAGCTACCAACTCTTTTTCCGAAGGTAACTGGCTTC
AGCAGAGCGCAGATACCAAATACTGTTCTTCTAGTGTAGCCGTAGTTAGGCCACCACTTCAAGAACTCTG
TAGCACCGCCTACATACCTCGCTCTGCTAATCCTGTTACCAGTGGCTGCTGCCAGTGGCGATAAGTCGTG
TCTTACCGGGTTGGACTCAAGACGATAGTTACCGGATAAGGCGCAGCGGTCGGGCTGAACGGGGGGTTCG
TGCACACAGCCCAGCTTGGAGCGAACGACCTACACCGAACTGAGATACCTACAGCGTGAGCTATGAGAAA
GCGCCACGCTTCCCGAAGGGAGAAAGGCGGACAGGTATCCGGTAAGCGGCAGGGTCGGAACAGGAGAGCG
CACGAGGGAGCTTCCAGGGGGAAACGCCTGGTATCTTTATAGTCCTGTCGGGTTTCGCCACCTCTGACTT
GAGCGTCGATTTTTGTGATGCTCGTCAGGGGGGCGGAGCCTATGGAAAAACGCCAGCAACGCGGCCTTTT
TACGGTTCCTGGCCTTTTGCTGGCCTTTTGCTCACATGTTCTTTCCTGCGTTATCCCCTGATTCTGTGGA
TAACCGTATTACCGCCTTTGAGTGAGCTGATACCGCTCGCCGCAGCCGAACGACCGAGCGCAGCGAGTCA
GTGAGCGAGGAAGCGGAAGAGCGCCCAATACGCAAACCGCCTCTCCCCGCGCGTTGGCCGATTCATTAAT
GCAGCTGGCACGACAGGTTTCCCGACTGGAAAGCGGGCAGTGAGCGCAACGCAATTAATGTGAGTTAGCT
CACTCATTAGGCACCCCAGGCTTTACACTTTATGCTTCCGGCTCGTATGTTGTGTGGAATTGTGAGCGGA
TAACAATTTCACACAGGAAACAGCTATGACCATGATTACGCCAAGCGCGCAATTAACCCTCACTAAAGGG
AACAAAAGCTGGAGCTGCAAGCTT

Please amend Table 20 on pages 440- 442 as follows:

Table 20: Nucleotide sequence of pLenti6/UbC/V5-DEST <u>(SEQ ID NO: 108)</u>.

AATGTAGTCTTATGCAATACTCTTGTAGTCTTGCAACATGGTAACGATGAGTTAGCAACATGCCTTACAA
GGAGAGAAAAAGCACCGTGCATGCCGATTGGTGGAAGTAAGGTGGTACGATCGTGCCTTATTAGGAAGGC
AACAGACGGGTCTGACATGGATTGGACGAACCACTGAATTGCCGCATTGCAGAGATATTGTATTTAAGTG
CCTAGCTCGATACATAAACGGGTCTCTCTGGTTAGACCAGATCTGAGCCTGGGAGCTCTCTGGCTAACTA
GGGAACCCACTGCTTAAGCCTCAATAAAGCTTGCCTTGAGTGCTTCAAGTAGTGTGTGCCCGTCTGTTGT
GTGACTCTGGTAACTAGAGATCCCTCAGACCCTTTTAGTCAGTGTGGAAAATCTCTAGCAGTGGCGCCCG
AACAGGGACTTGAAAGCGAAAGGGAAACCAGAGGAGCTCTCTCGACGCAGGACTCGGCTTGCTGAAGCGC
GCACGGCAAGAGGCGAGGGGCGGCGACTGGTGAGTACGCCAAAAATTTTGACTAGCGGAGGCTAGAAGGA
GAGAGATGGGTGCGAGAGCGTCAGTATTAAGCGGGGGAGAATTAGATCGCGATGGGAAAAAATTCGGTTA
AGGCCAGGGGGAAAGAAAAAATATAAATTAAAACATATAGTATGGGCAAGCAGGGAGCTAGAACGATTCG
CAGTTAATCCTGGCCTGTTAGAAACATCAGAAGGCTGTAGACAAATACTGGGACAGCTACAACCATCCCT
TCAGACAGGATCAGAAGAACTTAGATCATTATATAATACAGTAGCAACCCTCTATTGTGTGCATCAAAGG
ATAGAGATAAAAGACACCAAGGAAGCTTTAGACAAGATAGAGGAAGAGCAAAACAAAAGTAAGACCACCG
CACAGCAAGCGGCCGCTGATCTTCAGACCTGGAGGAGGAGATATGAGGGACAATTGGAGAAGTGAATTAT
ATAAATATAAAGTAGTAAAAATTGAACCATTAGGAGTAGCACCCACCAAGGCAAAGAGAAGAGTGGTGCA
GAGAGAAAAAAGAGCAGTGGGAATAGGAGCTTTGTTCCTTGGGTTCTTGGGAGCAGCAGGAAGCACTATG
GGCGCAGCGTCAATGACGCTGACGGTACAGGCCAGACAATTATTGTCTGGTATAGTGCAGCAGCAGAACA
ATTTGCTGAGGGCTATTGAGGCGCAACAGCATCTGTTGCAACTCACAGTCTGGGGCATCAAGCAGCTCCA
GGCAAGAATCCTGGCTGTGGAAAGATACCTAAAGGATCAACAGCTCCTGGGGATTTGGGGTTGCTCTGGA
AAACTCATTTGCACCACTGCTGTGCCTTGGAATGCTAGTTGGAGTAATAAATCTCTGGAACAGATTTGGA
ATCACACGACCTGGATGGAGTGGGACAGAGAAATTAACAATTACACAAGCTTAATACACTCCTTAATTGA
AGAATCGCAAAACCAGCAAGAAAAGAATGAACAAGAATTATTGGAATTAGATAAATGGGCAAGTTTGTGG
AATTGGTTTAACATAACAAATTGGCTGTGGTATATAAAATTATTCATAATGATAGTAGGAGGCTTGGTAG
GTTTAAGAATAGTTTTTGCTGTACTTTCTATAGTGAATAGAGTTAGGCAGGGATATTCACCATTATCGTT
TCAGACCCACCTCCCAACCCCGAGGGGACCCGACAGGCCCGAAGGAATAGAAGAAGAAGGTGGAGAGAGA
GACAGAGACAGATCCATTCGATTAGTGAACGGATCTCGACGGTATCGGATCTGGCCTCCGCGCCGGGTTT
TGGCGCCTCCCGCGGGCGCCCCCCTCCTCACGGCGAGCGCTGCCACGTCAGACGAAGGGCGCAGGAGCGT
CCTGATCCTTCCGCCCGGACGCTCAGGACAGCGGCCCGCTGCTCATAAGACTCGGCCTTAGAACCCCAGT
ATCAGCAGAAGGACATTTTAGGACGGGACTTGGGTGACTCTAGGGCACTGGTTTTCTTTCCAGAGAGCGG
AACAGGCGAGGAAAAGTAGTCCCTTCTCGGCGATTCTGCGGAGGGATCTCCGTGGGGCGGTGAACGCCGA
TGATTATATAAGGACGCGCCGGGTGTGGCACAGCTAGTTCCGTCGCAGCCGGGATTTGGGTCGCGGTTCT
TGTTTGTGGATCGCTGTGATCGTCACTTGGTGAGTAGCGGGCTGCTGGGCTGGCCGGGGCTTTCGTGGCC
GCCGGGCCGCTCGGTGGGACGGAAGCGTGTGGAGAGACCGCCAAGGGCTGTAGTCTGGGTCCGCGAGCAA
GGTTGCCCTGAACTGGGGGTTGGGGGGAGCGCAGCAAAATGGCGGCTGTTCCCGAGTCTTGAATGGAAGA
CGCTTGTGAGGCGGGCTGTGAGGTCGTTGAAACAAGGTGGGGGGCATGGTGGGCGGCAAGAACCCAAGGT
CTTGAGGCCTTCGCTAATGCGGGAAAGCTCTTATTCGGGTGAGATGGGCTGGGGCACCATCTGGGGACCC
TGACGTGAAGTTTGTCACTGACTGGAGAACTCGGTTTGTCGTCTGTTGCGGGGGCGGCAGTTATGCGGTG
CCGTTGGGCAGTGCACCCGTACCTTTGGGAGCGCGCGCCCTCGTCGTGTCGTGACGTCACCCGTTCTGTT
GGCTTATAATGCAGGGTGGGGCCACCTGCCGGTAGGTGTGCGGTAGGCTTTTCTCCGTCGCAGGACGCAG
GGTTCGGGCCTAGGGTAGGCTCTCCTGAATCGACAGGCGCCGGACCTCTGGTGAGGGGAGGGATAAGTGA
GGCGTCAGTTTCTTTGGTCGGTTTTATGTACCTATCTTCTTAAGTAGCTGAAGCTCCGGTTTTGAACTAT
GCGCTCGGGGTTGGCGAGTGTGTTTTGTGAAGTTTTTTAGGCACCTTTTGAAATGTAATCATTTGGGTCA
ATATGTAATTTTCAGTGTTAGACTAGTAAATTGTCCGCTAAATTCTGGCCGTTTTTGGCTTTTTTGTTAG
ACGAAGCTTGGTACCGAGCTCGGATCCACTAGTCCAGTGTGGTGGAATTCTGCAGATATCAACAAGTTTG
TACAAAAAAGCTGAACGAGAAACGTAAAATGATATAAATATCAATATATTAAATTAGATTTTGCATAAAA
AACAGACTACATAATACTGTAAAACACAACATATCCAGTCACTATGGCGGCCGCATTAGGCACCCCAGGC
TTTACACTTTATGCTTCCGGCTCGTATAATGTGTGGATTTTGAGTTAGGATCCGGCGAGATTTTCAGGAG
CTAAGGAAGCTAAAATGGAGAAAAAAATCACTGGATATACCACCGTTGATATATCCCAATGGCATCGTAA
AGAACATTTTGAGGCATTTCAGTCAGTTGCTCAATGTACCTATAACCAGACCGTTCAGCTGGATATTACG
GCCTTTTTAAAGACCGTAAAGAAAAATAAGCACAAGTTTTATCCGGCCTTTATTCACATTCTTGCCCGCC
TGATGAATGCTCATCCGGAATTCCGTATGGCAATGAAAGACGGTGAGCTGGTGATATGGGATAGTGTTCA
CCCTTGTTACACCGTTTTCCATGAGCAAACTGAAACGTTTTCATCGCTCTGGAGTGAATACCACGACGAT
TTCCGGCAGTTTCTACACATATATTCGCAAGATGTGGCGTGTTACGGTGAAAACCTGGCCTATTTCCCTA

Table 20 (continued) Nucleotide sequence of pLenti6/UbC/V5-DEST (SEQ ID NO: 108).

AAGGGTTTATTGAGAATATGTTTTTCGTCTCAGCCAATCCCTGGGTGAGTTTCACCAGTTTTGATTTAAA
CGTGGCCAATATGGACAACTTCTTCGCCCCCGTTTTCACCATGGGCAAATATTATACGCAAGGCGACAAG
GTGCTGATGCCGCTGGCGATTCAGGTTCATCATGCCGTCTGTGATGGCTTCCATGTCGGCAGAATGCTTA
ATGAATTACAACAGTACTGCGATGAGTGGCAGGGCGGGGCGTAAAGATCTGGATCCGGCTTACTAAAAGC
CAGATAACAGTATGCGTATTTGCGCGCTGATTTTTGCGGTATAAGAATATATACTGATATGTATACCCGA
AGTATGTCAAAAAGAGGTGTGCTATGAAGCAGCGTATTACAGTGACAGTTGACAGCGACAGCTATCAGTT
GCTCAAGGCATATATGATGTCAATATCTCCGGTCTGGTAAGCACAACCATGCAGAATGAAGCCCGTCGTC
TGCGTGCCGAACGCTGGAAAGCGGAAAATCAGGAAGGGATGGCTGAGGTCGCCCGGTTTATTGAAATGAA
CGGCTCTTTTGCTGACGAGAACAGGGACTGGTGAAATGCAGTTTAAGGTTTACACCTATAAAAGAGAGAG
CCGTTATCGTCTGTTTGTGGATGTACAGAGTGATATTATTGACACGCCCGGGCGACGGATGGTGATCCCC
CTGGCCAGTGCACGTCTGCTGTCAGATAAAGTCTCCCGTGAACTTTACCCGGTGGTGCATATCGGGGATG
AAAGCTGGCGCATGATGACCACCGATATGGCCAGTGTGCCGGTCTCCGTTATCGGGGAAGAAGTGGCTGA
TCTCAGCCACCGCGAAAATGACATCAAAAACGCCATTAACCTGATGTTCTGGGGAATATAAATGTCAGGC
TCCGTTATACACAGCCAGTCTGCAGGTCGACCATAGTGACTGGATATGTTGTGTTTTACAGTATTATGTA
GTCTGTTTTTTATGCAAAATCTAATTTAATATATTGATATTTATATCATTTTACGTTTCTCGTTCAGCTT
TCTTGTACAAAGTGGTTGATATCCAGCACAGTGGCGGCCGCTCGAGTCTAGAGGGCCCGCGGTTCGAAGG
TAAGCCTATCCCTAACCCTCTCCTCGGTCTCGATTCTACGCGTACCGGTTAGTAATGAGTTTGGAATTAA
TTCTGTGGAATGTGTGTCAGTTAGGGTGTGGAAAGTCCCCAGGCTCCCCAGGCAGGCAGAAGTATGCAAA
GCATGCATCTCAATTAGTCAGCAACCAGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCAGAAGTATGCA
AAGCATGCATCTCAATTAGTCAGCAACCATAGTCCCGCCCCTAACTCCGCCCATCCCGCCCCTAACTCCG
CCCAGTTCCGCCCATTCTCCGCCCCATGGCTGACTAATTTTTTTTATTTATGCAGAGGCCGAGGCCGCCT
CTGCCTCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGGCCTAGGCTTTTGCAAAAAGCTCCC
GGGAGCTTGTATATCCATTTTCGGATCTGATCAGCACGTGTTGACAATTAATCATCGGCATAGTATATCG
GCATAGTATAATACGACAAGGTGAGGAACTAAACCATGGCCAAGCCTTTGTCTCAAGAAGAATCCACCCT
CATTGAAAGAGCAACGGCTACAATCAACAGCATCCCCATCTCTGAAGACTACAGCGTCGCCAGCGCAGCT
CTCTCTAGCGACGGCCGCATCTTCACTGGTGTCAATGTATATCATTTTACTGGGGGACCTTGTGCAGAAC
TCGTGGTGCTGGGCACTGCTGCTGCTGCGGCAGCTGGCAACCTGACTTGTATCGTCGCGATCGGAAATGA
GAACAGGGGCATCTTGAGCCCCTGCGGACGGTGCCGACAGGTGCTTCTCGATCTGCATCCTGGGATCAAA
GCCATAGTGAAGGACAGTGATGGACAGCCGACGGCAGTTGGGATTCGTGAATTGCTGCCCTCTGGTTATG
TGTGGGAGGGCTAAGCACAATTCGAGCTCGGTACCTTTAAGACCAATGACTTACAAGGCAGCTGTAGATC
TTAGCCACTTTTTAAAAGAAAAGGGGGGACTGGAAGGGCTAATTCACTCCCAACGAAGACAAGATCTGCT
TTTTGCTTGTACTGGGTCTCTCTGGTTAGACCAGATCTGAGCCTGGGAGCTCTCTGGCTAACTAGGGAAC
CCACTGCTTAAGCCTCAATAAAGCTTGCCTTGAGTGCTTCAAGTAGTGTGTGCCCGTCTGTTGTGTGACT
CTGGTAACTAGAGATCCCTCAGACCCTTTTAGTCAGTGTGGAAAATCTCTAGCAGTAGTAGTTCATGTCA
TCTTATTATTCAGTATTTATAACTTGCAAAGAAATGAATATCAGAGAGTGAGAGGAACTTGTTTATTGCA
GCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTCACAAATAAAGCATTTTTTTCACTGCATT
CTAGTTGTGGTTTGTCCAAACTCATCAATGTATCTTATCATGTCTGGCTCTAGCTATCCCGCCCCTAACT
CCGCCCATCCCGCCCCTAACTCCGCCCAGTTCCGCCCATTCTCCGCCCCATGGCTGACTAATTTTTTTTA
TTTATGCAGAGGCCGAGGCCGCCTCGGCCTCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGG
CCTAGGGACGTACCCAATTCGCCCTATAGTGAGTCGTATTACGCGCGCTCACTGGCCGTCGTTTTACAAC
GTCGTGACTGGGAAAACCCTGGCGTTACCCAACTTAATCGCCTTGCAGCACATCCCCCTTTCGCCAGCTG
GCGTAATAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAATGGGAC
GCGCCCTGTAGCGGCGCATTAAGCGCGGCGGGTGTGGTGGTTACGCGCAGCGTGACCGCTACACTTGCCA
GCGCCCTAGCGCCCGCTCCTTTCGCTTTCTTCCCTTCCTTTCTCGCCACGTTCGCCGGCTTTCCCCGTCA
AGCTCTAAATCGGGGGCTCCCTTTAGGGTTCCGATTTAGTGCTTTACGGCACCTCGACCCCAAAAAACTT
GATTAGGGTGATGGTTCACGTAGTGGGCCATCGCCCTGATAGACGGTTTTTCGCCCTTTGACGTTGGAGT
CCACGTTCTTTAATAGTGGACTCTTGTTCCAAACTGGAACAACACTCAACCCTATCTCGGTCTATTCTTT
TGATTTATAAGGGATTTTGCCGATTTCGGCCTATTGGTTAAAAAATGAGCTGATTTAACAAAAATTTAAC
GCGAATTTTAACAAAATATTAACGCTTACAATTTAGGTGGCACTTTTCGGGGAAATGTGCGCGGAACCCC
TATTTGTTTATTTTTCTAAATACATTCAAATATGTATCCGCTCATGAGACAATAACCCTGATAAATGCTT
CAATAATATTGAAAAAGGAAGAGTATGAGTATTCAACATTTCCGTGTCGCCCTTATTCCCTTTTTTGCGG
CATTTTGCCTTCCTGTTTTTGCTCACCCAGAAACGCTGGTGAAAGTAAAAGATGCTGAAGATCAGTTGGG
TGCACGAGTGGGTTACATCGAACTGGATCTCAACAGCGGTAAGATCCTTGAGAGTTTTCGCCCCGAAGAA
CGTTTTCCAATGATGAGCACTTTTAAAGTTCTGCTATGTGGCGCGGTATTATCCCGTATTGACGCCGGGC
AAGAGCAACTCGGTCGCCGCATACACTATTCTCAGAATGACTTGGTTGAGTACTCACCAGTCACAGAAAA

Table 20 (continued) Nucleotide sequence of pLenti6/UbC/V5-DEST (SEQ ID NO: 108).

GCATCTTACGGATGGCATGACAGTAAGAGAATTATGCAGTGCTGCCATAACCATGAGTGATAACACTGCG
GCCAACTTACTTCTGACAACGATCGGAGGACCGAAGGAGCTAACCGCTTTTTTGCACAACATGGGGGATC
ATGTAACTCGCCTTGATCGTTGGGAACCGGAGCTGAATGAAGCCATACCAAACGACGAGCGTGACACCAC
GATGCCTGTAGCAATGGCAACAACGTTGCGCAAACTATTAACTGGCGAACTACTTACTCTAGCTTCCCGG
CAACAATTAATAGACTGGATGGAGGCGGATAAAGTTGCAGGACCACTTCTGCGCTCGGCCCTTCCGGCTG
GCTGGTTTATTGCTGATAAATCTGGAGCCGGTGAGCGTGGGTCTCGCGGTATCATTGCAGCACTGGGGCC
AGATGGTAAGCCCTCCCGTATCGTAGTTATCTACACGACGGGGAGTCAGGCAACTATGGATGAACGAAAT
AGACAGATCGCTGAGATAGGTGCCTCACTGATTAAGCATTGGTAACTGTCAGACCAAGTTTACTCATATA
TACTTTAGATTGATTTAAAACTTCATTTTTAATTTAAAAGGATCTAGGTGAAGATCCTTTTTGATAATCT
CATGACCAAAATCCCTTAACGTGAGTTTTCGTTCCACTGAGCGTCAGACCCCGTAGAAAAGATCAAAGGA
TCTTCTTGAGATCCTTTTTTTCTGCGCGTAATCTGCTGCTTGCAAACAAAAAAACCACCGCTACCAGCGG
TGGTTTGTTTGCCGGATCAAGAGCTACCAACTCTTTTTCCGAAGGTAACTGGCTTCAGCAGAGCGCAGAT
ACCAAATACTGTTCTTCTAGTGTAGCCGTAGTTAGGCCACCACTTCAAGAACTCTGTAGCACCGCCTACA
TACCTCGCTCTGCTAATCCTGTTACCAGTGGCTGCTGCCAGTGGCGATAAGTCGTGTCTTACCGGGTTGG
ACTCAAGACGATAGTTACCGGATAAGGCGCAGCGGTCGGGCTGAACGGGGGGTTCGTGCACACAGCCCAG
CTTGGAGCGAACGACCTACACCGAACTGAGATACCTACAGCGTGAGCTATGAGAAAGCGCCACGCTTCCC
GAAGGGAGAAAGGCGGACAGGTATCCGGTAAGCGGCAGGGTCGGAACAGGAGAGCGCACGAGGGAGCTTC
CAGGGGGAAACGCCTGGTATCTTTATAGTCCTGTCGGGTTTCGCCACCTCTGACTTGAGCGTCGATTTTT
GTGATGCTCGTCAGGGGGGCGGAGCCTATGGAAAAACGCCAGCAACGCGGCCTTTTTACGGTTCCTGGCC
TTTTGCTGGCCTTTTGCTCACATGTTCTTTCCTGCGTTATCCCCTGATTCTGTGGATAACCGTATTACCG
CCTTTGAGTGAGCTGATACCGCTCGCCGCAGCCGAACGACCGAGCGCAGCGAGTCAGTGAGCGAGGAAGC
GGAAGAGCGCCCAATACGCAAACCGCCTCTCCCCGCGCGTTGGCCGATTCATTAATGCAGCTGGCACGAC
AGGTTTCCCGACTGGAAAGCGGGCAGTGAGCGCAACGCAATTAATGTGAGTTAGCTCACTCATTAGGCAC
CCCAGGCTTTACACTTTATGCTTCCGGCTCGTATGTTGTGTGGAATTGTGAGCGGATAACAATTTCACAC
AGGAAACAGCTATGACCATGATTACGCCAAGCGCGCAATTAACCCTCACTAAAGGAACAAAAGCTGGAG
CTGCAAGCTT

Please amend Table 21 on pages 443-445 as follows:

Table 21: Nucleotide sequence of plasmid pLP1 (SEQ ID NO: 109).

TTGGCCCATTGCATACGTTGTATCCATATCATAATATGTACATTTATATTGGCTCATGTCCAACATTACC
GCCATGTTGACATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCA
TATATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCGCCCAACGACCCCCGCC
CATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGT
GGAGTATTTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATT
GACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGTACATGACCTTATGGGACTTTCCTACTT
GGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGATGCGGTTTTGGCAGTACATCAATGGGCG
TGGATAGCGGTTTGACTCACGGGGATTTCCAAGTCTCCACCCCATTGACGTCAATGGGAGTTTGTTTTGG
CACCAAAATCAACGGGACTTTCCAAAATGTCGTAACAACTCCGCCCCATTGACGCAAATGGGCGGTAGGC
GTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGCCTGGAGACGCCATCC
ACGCTGTTTTGACCTCCATAGAAGACACCGGGACCGATCCAGCCTCCCCTCGAAGCTTACATGTGGTACC
GAGCTCGGATCCTGAGAACTTCAGGGTGAGTCTATGGGACCCTTGATGTTTTCTTTCCCCTTCTTTTCTA
TGGTTAAGTTCATGTCATAGGAAGGGGAGAAGTAACAGGGTACACATATTGACCAAATCAGGGTAATTTT
GCATTTGTAATTTTAAAAAATGCTTTCTTCTTTTAATATACTTTTTTGTTTATCTTATTTCTAATACTTT
CCCTAATCTCTTTCTTTCAGGGCAATAATGATACAATGTATCATGCCTCTTTGCACCATTCTAAAGAATA
ACAGTGATAATTTCTGGGTTAAGGCAATAGCAATATTTCTGCATATAAATATTTCTGCATATAAATTGTA
ACTGATGTAAGAGGTTTCATATTGCTAATAGCAGCTACAATCCAGCTACCATTCTGCTTTTATTTTATGG
TTGGGATAAGGCTGGATTATTCTGAGTCCAAGCTAGGCCCTTTTGCTAATCATGTTCATACCTCTTATCT
TCCTCCCACAGCTCCTGGGCAACGTGCTGGTCTGTGTGCTGGCCCATCACTTTGGCAAAGCACGTGAGAT
CTGAATTCGAGATCTGCCGCCGCCATGGGTGCGAGAGCGTCAGTATTAAGCGGGGGAGAATTAGATCGAT
GGGAAAAAATTCGGTTAAGGCCAGGGGGAAAGAAAAAATATAAATTAAAACATATAGTATGGGCAAGCAG
GGAGCTAGAACGATTCGCAGTTAATCCTGGCCTGTTAGAAACATCAGAAGGCTGTAGACAAATACTGGGA
CAGCTACAACCATCCCTTCAGACAGGATCAGAAGAACTTAGATCATTATATAATACAGTAGCAACCCTCT
ATTGTGTGCATCAAAGGATAGAGATAAAAGACACCAAGGAAGCTTTAGACAAGATAGAGGAAGAGCAAAA
CAAAAGTAAGAAAAAAGCACAGCAAGCAGCAGCTGACACAGGACACAGCAATCAGGTCAGCCAAAATTAC
CCTATAGTGCAGAACATCCAGGGGCAAATGGTACATCAGGCCATATCACCTAGAACTTTAAATGCATGGG
TAAAAGTAGTAGAAGAGAAGGCTTTCAGCCCAGAAGTGATACCCATGTTTTCAGCATTATCAGAAGGAGC
CACCCCACAAGATTTAAACACCATGCTAAACACAGTGGGGGGACATCAAGCAGCCATGCAAATGTTAAAA
GAGACCATCAATGAGGAAGCTGCAGAATGGGATAGAGTGCATCCAGTGCATGCAGGGCCTATTGCACCAG
GCCAGATGAGAGAACCAAGGGGAAGTGACATAGCAGGAACTACTAGTACCCTTCAGGAACAAATAGGATG
GATGACACATAATCCACCTATCCCAGTAGGAGAAATCTATAAAAGATGGATAATCCTGGGATTAAATAAA
ATAGTAAGAATGTATAGCCCTACCAGCATTCTGGACATAAGACAAGGACCAAAGGAACCCTTTAGAGACT
ATGTAGACCGATTCTATAAAACTCTAAGAGCCGAGCAAGCTTCACAAGAGGTAAAAAATTGGATGACAGA
AACCTTGTTGGTCCAAAATGCGAACCCAGATTGTAAGACTATTTTAAAAGCATTGGGACCAGGAGCGACA
CTAGAAGAAATGATGACAGCATGTCAGGGAGTGGGGGGACCCGGCCATAAAGCAAGAGTTTTGGCTGAAG
CAATGAGCCAAGTAACAAATCCAGCTACCATAATGATACAGAAAGGCAATTTTAGGAACCAAAGAAAGAC
TGTTAAGTGTTTCAATTGTGGCAAAGAAGGGCACATAGCCAAAAATTGCAGGGCCCCTAGGAAAAAGGGC
TGTTGGAAATGTGGAAAGGAAGGACACCAAATGAAAGATTGTACTGAGAGACAGGCTAATTTTTTAGGGA
AGATCTGGCCTTCCCACAAGGGAAGGCCAGGGAATTTTCTTCAGAGCAGACCAGAGCCAACAGCCCCACC
AGAAGAGAGCTTCAGGTTTGGGGAAGAGACAACAACTCCCTCTCAGAAGCAGGAGCCGATAGACAAGGAA
CTGTATCCTTTAGCTTCCCTCAGATCACTCTTTGGCAGCGACCCCTCGTCACAATAAAGATAGGGGGGCA
ATTAAAGGAAGCTCTATTAGATACAGGAGCAGATGATACAGTATTAGAAGAAATGAATTTGCCAGGAAGA
TGGAAACCAAAAATGATAGGGGGAATTGGAGGTTTTATCAAAGTAAGACAGTATGATCAGATACTCATAG
AAATCTGCGGACATAAAGCTATAGGTACAGTATTAGTAGGACCTACACCTGTCAACATAATTGGAAGAAA
TCTGTTGACTCAGATTGGCTGCACTTTAAATTTTCCCATTAGTCCTATTGAGACTGTACCAGTAAAATTA
AAGCCAGGAATGGATGGCCCAAAAGTTAAACAATGGCCATTGACAGAAGAAAAAATAAAAGCATTAGTAG
AAATTTGTACAGAAATGGAAAAGGAAGGAAAAATTTCAAAAATTGGGCCTGAAAATCCATACAATACTCC
AGTATTTGCCATAAAGAAAAAAGACAGTACTAAATGGAGAAAATTAGTAGATTTCAGAGAACTTAATAAG
AGAACTCAAGATTTCTGGGAAGTTCAATTAGGAATACCACATCCTGCAGGGTTAAAACAGAAAAAATCAG
TAACAGTACTGGATGTGGGCGATGCATATTTTTCAGTTCCCTTAGATAAAGACTTCAGGAAGTATACTGC
ATTTACCATACCTAGTATAAACAATGAGACACCAGGGATTAGATATCAGTACAATGTGCTTCCACAGGGA
TGGAAAGGATCACCAGCAATATTCCAGTGTAGCATGACAAAAATCTTAGAGCCTTTTAGAAAACAAAATC

Table 21 (continued) Nucleotide sequence of plasmid pLP1 (SEQ ID NO: 109).

CAGACATAGTCATCTATCAATACATGGATGATTTGTATGTAGGATCTGACTTAGAAATAGGGCAGCATAG
AACAAAAATAGAGGAACTGAGACAACATCTGTTGAGGTGGGGATTTACCACACCAGACAAAAAACATCAG
AAAGAACCTCCATTCCTTTGGATGGGTTATGAACTCCATCCTGATAAATGGACAGTACAGCCTATAGTGC
TGCCAGAAAAGGACAGCTGGACTGTCAATGACATACAGAAATTAGTGGGAAAATTGAATTGGGCAAGTCA
GATTTATGCAGGGATTAAAGTAAGGCAATTATGTAAACTTCTTAGGGGAACCAAAGCACTAACAGAAGTA
GTACCACTAACAGAAGAAGCAGAGCTAGAACTGGCAGAAAACAGGGAGATTCTAAAAGAACCGGTACATG
GAGTGTATTATGACCCATCAAAAGACTTAATAGCAGAAATACAGAAGCAGGGGCAAGGCCAATGGACATA
TCAAATTTATCAAGAGCCATTTAAAAATCTGAAAACAGGAAAGTATGCAAGAATGAAGGGTGCCCACACT
AATGATGTGAAACAATTAACAGAGGCAGTACAAAAAATAGCCACAGAAAGCATAGTAATATGGGGAAAGA
CTCCTAAATTTAAATTACCCATACAAAAGGAAACATGGGAAGCATGGTGGACAGAGTATTGGCAAGCCAC
CTGGATTCCTGAGTGGGAGTTTGTCAATACCCCTCCCTTAGTGAAGTTATGGTACCAGTTAGAGAAAGAA
CCCATAATAGGAGCAGAAACTTTCTATGTAGATGGGGCAGCCAATAGGGAAACTAAATTAGGAAAAGCAG
GATATGTAACTGACAGAGGAAGACAAAAAGTTGTCCCCCTAACGGACACAACAAATCAGAAGACTGAGTT
ACAAGCAATTCATCTAGCTTTGCAGGATTCGGGATTAGAAGTAAACATAGTGACAGACTCACAATATGCA
TTGGGAATCATTCAAGCACAACCAGATAAGAGTGAATCAGAGTTAGTCAGTCAAATAATAGAGCAGTTAA
TAAAAAAGGAAAAAGTCTACCTGGCATGGGTACCAGCACACAAAGGAATTGGAGGAAATGAACAAGTAGA
TAAATTGGTCAGTGCTGGAATCAGGAAAGTACTATTTTTAGATGGAATAGATAAGGCCCAAGAAGAACAT
GAGAAATATCACAGTAATTGGAGAGCAATGGCTAGTGATTTTAACCTACCACCTGTAGTAGCAAAAGAAA
TAGTAGCCAGCTGTGATAAATGTCAGCTAAAAGGGGAAGCCATGCATGGACAAGTAGACTGTAGCCCAGG
AATATGGCAGCTAGATTGTACACATTTAGAAGGAAAAGTTATCTTGGTAGCAGTTCATGTAGCCAGTGGA
TATATAGAAGCAGAAGTAATTCCAGCAGAGACAGGGCAAGAAACAGCATACTTCCTCTTAAAATTAGCAG
GAAGATGGCCAGTAAAAACAGTACATACAGACAATGGCAGCAATTTCACCAGTACTACAGTTAAGGCCGC
CTGTTGGTGGGCGGGGATCAAGCAGGAATTTGGCATTCCCTACAATCCCCAAAGTCAAGGAGTAATAGAA
TCTATGAATAAAGAATTAAAGAAAATTATAGGACAGGTAAGAGATCAGGCTGAACATCTTAAGACAGCAG
TACAAATGGCAGTATTCATCCACAATTTTAAAAGAAAAGGGGGGATTGGGGGGTACAGTGCAGGGGAAAG
AATAGTAGACATAATAGCAACAGACATACAAACTAAAGAATTACAAAAACAAATTACAAAAATTCAAAAT
TTTCGGGTTTATTACAGGGACAGCAGAGATCCAGTTTGGAAAGGACCAGCAAAGCTCCTCTGGAAAGGTG
AAGGGGCAGTAGTAATACAAGATAATAGTGACATAAAAGTAGTGCCAAGAAGAAAAGCAAAGATCATCAG
GGATTATGGAAAACAGATGGCAGGTGATGATTGTGTGGCAAGTAGACAGGATGAGGATTAACACATGGAA
TTCCGGAGCGGCCGCAGGAGCTTTGTTCCTTGGGTTCTTGGGAGCAGCAGGAAGCACTATGGGCGCAGCG
TCAATGACGCTGACGGTACAGGCCAGACAATTATTGTCTGGTATAGTGCAGCAGCAGAACAATTTGCTGA
GGGCTATTGAGGCGCAACAGCATCTGTTGCAACTCACAGTCTGGGGCATCAAGCAGCTCCAGGCAAGAAT
CCTGGCTGTGGAAAGATACCTAAAGGATCAACAGCTCCTGGGGATTTGGGGTTGCTCTGGAAAACTCATT
TGCACCACTGCTGTGCCTTGGAATGCTAGTTGGAGTAATAAATCTCTGGAACAGATTTGGAATCACACGA
CCTGGATGGAGTGGGACAGAGAAATTAACAATTACACAAGCTTCCGCGGAATTCACCCCACCAGTGCAGG
CTGCCTATCAGAAAGTGGTGGCTGGTGTGGCTAATGCCCTGGCCCACAAGTATCACTAAGCTCGCTTTCT
TGCTGTCCAATTTCTATTAAAGGTTCCTTTGTTCCCTAAGTCCAACTACTAAACTGGGGGATATTATGAA
GGGCCTTGAGCATCTGGATTCTGCCTAATAAAAAACATTTATTTTCATTGCAATGATGTATTTAAATTAT
TTCTGAATATTTTACTAAAAAGGGAATGTGGGAGGTCAGTGCATTTAAAACATAAAGAAATGAAGAGCTA
GTTCAAACCTTGGAAAATACACTATATCTTAAACTCCATGAAAGAAGGTGAGGCTGCAAACAGCTAATG
CACATTGGCAACAGCCCCTGATGCCTATGCCTTATTCATCCCTCAGAAAAGGATTCAAGTAGAGGCTTGA
TTTGGAGGTTAAAGTTTTGCTATGCTGTATTTTACATTACTTATTGTTTTAGCTGTCCTCATGAATGTCT
TTTCACTACCCATTTGCTTATCCTGCATCTCTCAGCCTTGACTCCACTCAGTTCTCTTGCTTAGAGATAC
CACCTTTCCCCTGAAGTGTTCCTTCCATGTTTTACGGCGAGATGGTTTCTCCTCGCCTGGCCACTCAGCC
TTAGTTGTCTCTGTTGTCTTATAGAGGTCTACTTGAAGAAGGAAAAACAGGGGGCATGGTTTGACTGTCC
TGTGAGCCCTTCTTCCCTGCCTCCCCCACTCACAGTGACCCGGAATCCCTCGACATGGCAGTCTAGCACT
AGTGCGGCCGCAGATCTGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGAGCGGT
ATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGA
GCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCC
CCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATA
CCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGATACCTG
TCCGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATAGCTCACGCTGTAGGTATCTCAGTTCGGTGT
AGGTCGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTCAGCCCGACCGCTGCGCCTTATCCGG
TAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGG
ATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTA

Table 21 (continued) Nucleotide sequence of plasmid pLP1 (SEQ ID NO: 109).

GAAGAACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTTG
ATCCGGCAAACAAACCACCGCTGGTAGCGGTGGTTTTTTTGTTTGCAAGCAGCAGATTACGCGCAGAAAA
AAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACTCACGTT
AAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCTTTTAAATTAAAAATGAAGTTT
TAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCACCT
ATCTCAGCGATCTGTCTATTTCGTTCATCCATAGTTGCCTGACTCCCCGTCGTGTAGATAACTACGATAC
GGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACCGCGAGACCCACGCTCACCGGCTCCAGATTT
ATCAGCAATAAACCAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCCTGCAACTTTATCCGCCTCCATC
CAGTCTATTAATTGTTGCCGGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGCGCAACGTTGTTG
CCATTGCTACAGGCATCGTGGTGTCACGCTCGTCGTTTGGTATGGCTTCATTCAGCTCCGGTTCCCAACG
ATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAAAAAGCGGTTAGCTCCTTCGGTCCTCCGATCGTT
GTCAGAAGTAAGTTGGCCGCAGTGTTATCACTCATGGTTATGGCAGCACTGCATAATTCTCTTACTGTCA
TGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTATGCG
GCGACCGAGTTGCTCTTGCCCGGCGTCAATACGGGATAATACCGCGCCACATAGCAGAACTTTAAAAGTG
CTCATCATTGGAAAACGTTCTTCGGGGCGAAAACTCTCAAGGATCTTACCGCTGTTGAGATCCAGTTCGA
TGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTACTTTCACCAGCGTTTCTGGGTGAGCAAA
AACAGGAAGGCAAAATGCCGCAAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATACTCATACTCTTC
CTTTTTCAATATTATTGAAGCATTTATCAGGGTTATTGTCTCATGAGCGGATACATATTTGAATGTATTT
AGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGTGCCACCTGACGGATCCCCTGAGG
GGGCCCCCATGGGCTAGAGGATCCGGCCTCGGCCTCTGCATAAATAAAAAAAATTAGTCAGCCATGAGC

Please amend Table 22 on pages 446 and 447 as follows:

Table 22: Nucleotide sequence of plasmid pLP2 (SEQ ID NO: 110).

AATGTAGTCTTATGCAATACTCTTGTAGTCTTGCAACATGGTAACGATGAGTTAGCAACATGCCTTACAA
GGAGAGAAAAAGCACCGTGCATGCCGATTGGTGGAAGTAAGGTGGTACGATCGTGCCTTATTAGGAAGGC
AACAGACGGGTCTGACATGGATTGGACGAACCACTGAATTCCGCATTGCAGAGATATTGTATTTAAGTGC
CTAGCTCGATACAATAAACGCCATTTGACCATTCACCACATTGGTGTGCACCTCCAAGCTCGAGCTCGTT
TAGTGAACCGTCAGATCGCCTGGAGACGCCATCCACGCTGTTTTGACCTCCATAGAAGACACCGGGACCG
ATCCAGCCTCCCCTCGAAGCTAGTCGATTAGGCATCTCCTATGGCAGGAAGAAGCGGAGACAGCGACGAA
GACCTCCTCAAGGCAGTCAGACTCATCAAGTTTCTCTATCAAAGCAACCCACCTCCCAATCCCGAGGGGA
CCCGACAGGCCCGAAGGAATAGAAGAAGAAGGTGGAGAGAGAGACAGAGACAGATCCATTCGATTAGTGA
ACGGATCCTTAGCACTTATCTGGGACGATCTGCGGAGCCTGTGCCTCTTCAGCTACCACCGCTTGAGAGA
CTTACTCTTGATTGTAACGAGGATTGTGGAACTTCTGGGACGCAGGGGGTGGGAAGCCCTCAAATATTGG
TGGAATCTCCTACAATATTGGAGTCAGGAGCTAAAGAATAGTGCTGTTAGCTTGCTCAATGCCACAGCTA
TAGCAGTAGCTGAGGGGACAGATAGGGTTATAGAAGTAGTACAAGAAGCTTGGCACTGGCCGTCGTTTTA
CAACGTCGTGATCTGAGCCTGGGAGATCTCTGGCTAACTAGGGAACCCACTGCTTAAGCCTCAATAAAGC
TTGCCTTGAGTGCTTCAAGTAGTGTGTGCCCGTCTGTTGTGTGACTCTGGTAACTAGAGATCAGGAAAAC
CCTGGCGTTACCCAACTTAATCGCCTTGCAGCACATCCCCCTTTCGCCAGCTGGCGTAATAGCGAAGAGG
CCCGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAATGGCGCCTGATGCGGTATTTTCT
CCTTACGCATCTGTGCGGTATTTCACACCGCATACGTCAAAGCAACCATAGTACGCGCCCTGTAGCGGCG
CATTAAGCGCGGCGGGTGTGGTGGTTACGCGCAGCGTGACCGCTACACTTGCCAGCGCCCTAGCGCCCGC
TCCTTTCGCTTTCTTCCCTTCCTTTCTCGCCACGTTCGCCGGCTTTCCCCGTCAAGCTCTAAATCGGGGG
CTCCCTTTAGGGTTCCGATTTAGTGCTTTACGGCACCTCGACCCCAAAAAACTTGATTTGGGTGATGGTT
CACGTAGTGGGCCATCGCCCTGATAGACGGTTTTTCGCCCTTTGACGTTGGAGTCCACGTTCTTTAATAG
TGGACTCTTGTTCCAAACTGGAACAACACTCAACCCTATCTCGGGCTATTCTTTTGATTTATAAGGGATT
TTGCCGATTTCGGCCTATTGGTTAAAAAATGAGCTGATTTAACAAAAATTTAACGCGAATTTTAACAAAA
TATTAACGTTTACAATTTTATGGTGCACTCTCAGTACAATCTGCTCTGATGCCGCATAGTTAAGCCAGCC
CCGACACCCGCCAACACCCGCTGACGCGCCCTGACGGGCTTGTCTGCTCCCGGCATCCGCTTACAGACAA
GCTGTGACCGTCTCCGGGAGCTGCATGTGTCAGAGGTTTTCACCGTCATCACCGAAACGCGCGAGACGAA
AGGGCCTCGTGATACGCCTATTTTTATAGGTTAATGTCATGATAATAATGGTTTCTTAGACGTCAGGTGG
CACTTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTTATTTTTCTAAATACATTCAAATATGTATCCG
CTCATGAGACAATAACCCTGATAAATGCTTCAATAATATTGAAAAAGGAAGAGTATGAGTATTCAACATT
TCCGTGTCGCCCTTATTCCCTTTTTTGCGGCATTTTGCCTTCCTGTTTTTGCTCACCCAGAAACGCTGGT
GAAAGTAAAAGATGCTGAAGATCAGTTGGGTGCACGAGTGGGTTACATCGAACTGGATCTCAACAGCGGT
AAGATCCTTGAGAGTTTTCGCCCCGAAGAACGTTTTCCAATGATGAGCACTTTTAAAGTTCTGCTATGTG
GCGCGGTATTATCCCGTATTGACGCCGGGCAAGAGCAACTCGGTCGCCGCATACACTATTCTCAGAATGA
CTTGGTTGAGTACTCACCAGTCACAGAAAAGCATCTTACGGATGGCATGACAGTAAGAGAATTATGCAGT
GCTGCCATAACCATGAGTGATAACACTGCGGCCAACTTACTTCTGACAACGATCGGAGGACCGAAGGAGC
TAACCGCTTTTTTGCACAACATGGGGGATCATGTAACTCGCCTTGATCGTTGGGAACCGGAGCTGAATGA
AGCCATACCAAACGACGAGCGTGACACCACGATGCCTGTAGCAATGGCAACAACGTTGCGCAAACTATTA
ACTGGCGAACTACTTACTCTAGCTTCCCGGCAACAATTAATAGACTGGATGGAGGCGGATAAAGTTGCAG
GACCACTTCTGCGCTCGGCCCTTCCGGCTGGCTGGTTTATTGCTGATAAATCTGGAGCCGGTGAGCGTGG
GTCTCGCGGTATCATTGCAGCACTGGGGCCAGATGGTAAGCCCTCCCGTATCGTAGTTATCTACACGACG
GGGAGTCAGGCAACTATGGATGAACGAAATAGACAGATCGCTGAGATAGGTGCCTCACTGATTAAGCATT
GGTAACTGTCAGACCAAGTTTACTCATATATACTTTAGATTGATTTAAAACTTCATTTTTAATTTAAAAG
GATCTAGGTGAAGATCCTTTTTGATAATCTCATGACCAAAATCCCTTAACGTGAGTTTTCGTTCCACTGA
GCGTCAGACCCCGTAGAAAAGATCAAAGGATCTTCTTGAGATCCTTTTTTTCTGCGCGTAATCTGCTGCT
TGCAAACAAAAAAACCACCGCTACCAGCGGTGGTTTGTTTGCCGGATCAAGAGCTACCAACTCTTTTTCC
GAAGGTAACTGGCTTCAGCAGAGCGCAGATACCAAATACTGTTCTTCTAGTGTAGCCGTAGTTAGGCCAC
CACTTCAAGAACTCTGTAGCACCGCCTACATACCTCGCTCTGCTAATCCTGTTACCAGTGGCTGCTGCCA
GTGGCGATAAGTCGTGTCTTACCGGGTTGGACTCAAGACGATAGTTACCGGATAAGGCGCAGCGGTCGGG
CTGAACGGGGGGTTCGTGCACACAGCCCAGCTTGGAGCGAACGACCTACACCGAACTGAGATACCTACAG
CGTGAGCTATGAGAAAGCGCCACGCTTCCCGAAGGGAGAAAGGCGGACAGGTATCCGGTAAGCGGCAGGG
TCGGAACAGGAGAGCGCACGAGGGAGCTTCCAGGGGGAAACGCCTGGTATCTTTATAGTCCTGTCGGGTT

Table 22 (continued) Nucleotide sequence of plasmid pLP2 (SEQ ID NO: 110).

TCGCCACCTCTGACTTGAGCGTCGATTTTTGTGATGCTCGTCAGGGGGGCGGAGCCTATGGAAAAACGCC
AGCAACGCGGCCTTTTTACGGTTCCTGGCCTTTTGCTGGCCTTTTGCTCACATGTTCTTTCCTGCGTTAT
CCCCTGATTCTGTGGATAACCGTATTACCGCCTTTGAGTGAGCTGATACCGCTCGCCGCAGCCGAACGAC
CGAGCGCAGCGAGTCAGTGAGCGAGGAAGCGGAAGAGCGCCCAATACGCAAACCGCCTCTCCCCGCGCGT
TGGCCGATTCATTAATGCAGCTGGCACGACAGGTTTCCCGACTGGAAAGCGGGCAGTGAGCGCAACGCAA
TTAATGTGAGTTAGCTCACTCATTAGGCACCCCAGGCTTTACACTTTATGCTTCCGGCTCGTATGTTGTG
TGGAATTGTGAGCGGATAACAATTTCACACAGGAAACAGCTATGACATGATTACGAATTCGATGTACGGG
CCAGATATACGCGTATCTGAGGGGACTAGGGTGTGTTTAGGCGAAAAGCGGGGCTTCGGTTGTACGCGGT
TAGGAGTCCCCTCAGGATATAGTAGTTTCGCTTTTGCATAGGGAGGGGGA

Please amend Table 23 on pages 448 and 449 as follows:

Table 23: Nucleotide sequence of plasmid pLP/VSVG (SEQ ID NO: 111).

TTGGCCCATTGCATACGTTGTATCCATATCATAATATGTACATTTATATTGGCTCATGTCCAACATTACC
GCCATGTTGACATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCA
TATATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCGCCCAACGACCCCCGCC
CATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGT
GGAGTATTTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATT
GACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGTACATGACCTTATGGGACTTTCCTACTT
GGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGATGCGGTTTTGGCAGTACATCAATGGGCG
TGGATAGCGGTTTGACTCACGGGGATTTCCAAGTCTCCACCCCATTGACGTCAATGGGAGTTTGTTTTGG
CACCAAAATCAACGGGACTTTCCAAAATGTCGTAACAACTCCGCCCCATTGACGCAAATGGGCGGTAGGC
GTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGCCTGGAGACGCCATCC
ACGCTGTTTTGACCTCCATAGAAGACACCGGGACCGATCCAGCCTCCCCTCGAAGCTTACATGTGGTACC
GAGCTCGGATCCTGAGAACTTCAGGGTGAGTCTATGGGACCCTTGATGTTTTCTTTCCCCTTCTTTTCTA
TGGTTAAGTTCATGTCATAGGAAGGGGAGAAGTAACAGGGTACACATATTGACCAAATCAGGGTAATTTT
GCATTTGTAATTTTAAAAAATGCTTTCTTCTTTTAATATACTTTTTTGTTTATCTTATTTCTAATACTTT
CCCTAATCTCTTTCTTTCAGGGCAATAATGATACAATGTATCATGCCTCTTTGCACCATTCTAAAGAATA
ACAGTGATAATTTCTGGGTTAAGGCAATAGCAATATTTCTGCATATAAATATTTCTGCATATAAATTGTA
ACTGATGTAAGAGGTTTCATATTGCTAATAGCAGCTACAATCCAGCTACCATTCTGCTTTTATTTTATGG
TTGGGATAAGGCTGGATTATTCTGAGTCCAAGCTAGGCCCTTTTGCTAATCATGTTCATACCTCTTATCT
TCCTCCCACAGCTCCTGGGCAACGTGCTGGTCTGTGTGCTGGCCCATCACTTTGGCAAAGCACGTGAGAT
CTGAATTCTGACACTATGAAGTGCCTTTTGTACTTAGCCTTTTTATTCATTGGGGTGAATTGCAAGTTCA
CCATAGTTTTTCCACACAACCAAAAAGGAAACTGGAAAAATGTTCCTTCTAATTACCATTATTGCCCGTC
AAGCTCAGATTTAAATTGGCATAATGACTTAATAGGCACAGCCTTACAAGTCAAAATGCCCAAGAGTCAC
AAGGCTATTCAAGCAGACGGTTGGATGTGTCATGCTTCCAAATGGGTCACTACTTGTGATTTCCGCTGGT
ATGGACCGAAGTATATAACACATTCCATCCGATCCTTCACTCCATCTGTAGAACAATGCAAGGAAAGCAT
TGAACAAACGAAACAAGGAACTTGGCTGAATCCAGGCTTCCCTCCTCAAAGTTGTGGATATGCAACTGTG
ACGGATGCCGAAGCAGTGATTGTCCAGGTGACTCCTCACCATGTGCTGGTTGATGAATACACAGGAGAAT
GGGTTGATTCACAGTTCATCAACGGAAAATGCAGCAATTACATATGCCCCACTGTCCATAACTCTACAAC
CTGGCATTCTGACTATAAGGTCAAAGGGCTATGTGATTCTAACCTCATTTCCATGGACATCACCTTCTTC
TCAGAGGACGGAGAGCTATCATCCCTGGGAAAGGAGGGCACAGGGTTCAGAAGTAACTACTTTGCTTATG
AAACTGGAGGCAAGGCCTGCAAAATGCAATACTGCAAGCATTGGGGAGTCAGACTCCCATCAGGTGTCTG
GTTCGAGATGGCTGATAAGGATCTCTTTGCTGCAGCCAGATTCCCTGAATGCCCAGAAGGGTCAAGTATC
TCTGCTCCATCTCAGACCTCAGTGGATGTAAGTCTAATTCAGGACGTTGAGAGGATCTTGGATTATTCCC
TCTGCCAAGAAACCTGGAGCAAAATCAGAGCGGGTCTTCCAATCTCTCCAGTGGATCTCAGCTATCTTGC
TCCTAAAAACCCAGGAACCGGTCCTGCTTTCACCATAATCAATGGTACCCTAAAATACTTTGAGACCAGA
TACATCAGAGTCGATATTGCTGCTCCAATCCTCTCAAGAATGGTCGGAATGATCAGTGGAACTACCACAG
AAAGGGAACTGTGGGATGACTGGGCACCATATGAAGACGTGGAAATTGGACCCAATGGAGTTCTGAGGAC
CAGTTCAGGATATAAGTTTCCTTTATACATGATTGGACATGGTATGTTGGACTCCGATCTTCATCTTAGC
TCAAAGGCTCAGGTGTTCGAACATCCTCACATTCAAGACGCTGCTTCGCAACTTCCTGATGATGAGAGTT
TATTTTTTGGTGATACTGGGCTATCCAAAAATCCAATCGAGCTTGTAGAAGGTTGGTTCAGTAGTTGGAA
AAGCTCTATTGCCTCTTTTTTCTTTATCATAGGGTTAATCATTGGACTATTCTTGGTTCTCCGAGTTGGT
ATCCATCTTTGCATTAAATTAAAGCACACCAAGAAAAGACAGATTTATACAGACATAGAGATGAACCGAC
TTGGAAAGTAACTCAAATCCTGCACAACAGATTCTTCATGTTTGGACCAAATCAACTTGTGATACCATGC
TCAAAGAGGCCTCAATTATATTTGAGTTTTTAATTTTTATGAAAAAAAAAAAAAAAAACGGAATTCACCC
CACCAGTGCAGGCTGCCTATCAGAAAGTGGTGGCTGGTGTGGCTAATGCCCTGGCCCACAAGTATCACTA
AGCTCGCTTTCTTGCTGTCCAATTTCTATTAAAGGTTCCTTTGTTCCCTAAGTCCAACTACTAAACTGGG
GGATATTATGAAGGGCCTTGAGCATCTGGATTCTGCCTAATAAAAAACATTTATTTTCATTGCAATGATG
TATTTAAATTATTTCTGAATATTTTACTAAAAAGGGAATGTGGGAGGTCAGTGCATTTAAAACATAAAGA
AATGAAGAGCTAGTTCAAACCTTGGGAAAATACACTATATCTTAAACTCCATGAAAGAAGGTGAGGCTGC
AAACAGCTAATGCACATTGGCAACAGCCCCTGATGCCTATGCCTTATTCATCCCTCAGAAAAGGATTCAA
GTAGAGGCTTGATTTGGAGGTTAAAGTTTTGCTATGCTGTATTTTACATTACTTATTGTTTTAGCTGTCC
TCATGAATGTCTTTTCACTACCCATTTGCTTATCCTGCATCTCTCAGCCTTGACTCCACTCAGTTCTCTT

Table 23 (continued) Nucleotide sequence of plasmid pLP/VSVG
(SEQ ID NO: 111).

GCTTAGAGATACCACCTTTCCCCTGAAGTGTTCCTTCCATGTTTTACGGCGAGATGGTTTCTCCTCGCCT
GGCCACTCAGCCTTAGTTGTCTCTGTTGTCTTATAGAGGTCTACTTGAAGAAGGAAAAACAGGGGGCATG
GTTTGACTGTCCTGTGAGCCCTTCTTCCCTGCCTCCCCCACTCACAGTGACCCGGAATCCCTCGACATGG
CAGTCTAGCACTAGTGCGGCCGCAGATCTGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCT
GCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGA
AAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCC
ATAGGCTCCGCCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGG
ACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCTT
ACCGGATACCTGTCCGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATAGCTCACGCTGTAGGTATC
TCAGTTCGGTGTAGGTCGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTCAGCCCGACCGCTG
CGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCC
ACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACT
ACGGCTACACTAGAAGAACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGT
TGGTAGCTCTTGATCCGGCAAACAAACCACCGCTGGTAGCGGTGGTTTTTTTGTTTGCAAGCAGCAGATT
ACGCGCAGAAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGAACG
AAAACTCACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCTTTTAAATTA
AAAATGAAGTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATC
AGTGAGGCACCTATCTCAGCGATCTGTCTATTTCGTTCATCCATAGTTGCCTGACTCCCCGTCGTGTAGA
TAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACCGCGAGACCCACGCTCACC
GGCTCCAGATTTATCAGCAATAAACCAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCCTGCAACTTTA
TCCGCCTCCATCCAGTCTATTAATTGTTGCCGGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGC
GCAACGTTGTTGCCATTGCTACAGGCATCGTGGTGTCACGCTCGTCGTTTGGTATGGCTTCATTCAGCTC
CGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAAAAAGCGGTTAGCTCCTTCGGT
CCTCCGATCGTTGTCAGAAGTAAGTTGGCCGCAGTGTTATCACTCATGGTTATGGCAGCACTGCATAATT
CTCTTACTGTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGA
ATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAATACGGGATAATACCGCGCCACATAGCAGA
ACTTTAAAAGTGCTCATCATTGGAAAACGTTCTTCGGGGCGAAAACTCTCAAGGATCTTACCGCTGTTGA
GATCCAGTTCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTACTTTCACCAGCGTTTC
TGGGTGAGCAAAAACAGGAAGGCAAAATGCCGCAAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATA
CTCATACTCTTCCTTTTTCAATATTATTGAAGCATTTATCAGGGTTATTGTCTCATGAGCGGATACATAT
TTGAATGTATTTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGTGCCACCTGACGG
GATCCCCTGAGGGGGCCCCCATGGGCTAGAGGATCCGGCCTCGGCCTCTGCATAAATAAAAAAAATTAGT
CAGCCATGAGC

Please amend Table 28 on pages 450 and 451 as follows:

Table 28: Nucleotide sequence of plasmid pcDNA™6.2/V5-DEST (SEQ ID NO: 112).

GACGGATCGGGAGATCTCCCGATCCCCTATGGTGCACTCTCAGTACAATCTGCTCTGATGCCGCATAGTT
AAGCCAGTATCTGCTCCCTGCTTGTGTGTTGGAGGTCGCTGAGTAGTGCGCGAGCAAAATTTAAGCTACA
ACAAGGCAAGGCTTGACCGACAATTGCATGAAGAATCTGCTTAGGGTTAGGCGTTTTGCGCTGCTTCGCG
ATGTACGGGCCAGATATACGCGTTGACATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTC
ATTAGTTCATAGCCCATATATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCG
CCCAACGACCCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCC
ATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCC
AAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGTACATGACCTTA
TGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGATGCGGTTTTGGC
AGTACATCAATGGGCGTGGATAGCGGTTTGACTCACGGGGATTTCCAAGTCTCCACCCCATTGACGTCAA
TGGGAGTTTGTTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAACAACTCCGCCCCATTGACG
CAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCTCTGGCTAACTAGAGAACCCA
CTGCTTACTGGCTTATCGAAATTAATACGACTCACTATAGGGAGACCCAAGCTGGCTAGTTAAGCTATCA
ACAAGTTTGTACAAAAAAGCTGAACGAGAAACGTAAAATGATATAAATATCAATATATTAAATTAGATTT
TGCATAAAAAACAGACTACATAATACTGTAAAACACAACATATCCAGTCACTATGAATCAACTACTTAGA
TGGTATTAGTGACCTGTAGTCGACCGACAGCCTTCCAAATGTTCTTCGGGTGATGCTGCCAACTTAGTCG
ACCGACAGCCTTCCAAATGTTCTTCTCAAACGGAATCGTCGTATCCAGCCTACTCGCTATTGTCCTCAAT
GCCGTATTAAATCATAAAAAGAAATAAGAAAAAGAGGTGCGAGCCTCTTTTTTGTGTGACAAAATAAAAA
CATCTACCTATTCATATACGCTAGTGTCATAGTCCTGAAAATCATCTGCATCAAGAACAATTTCACAACT
CTTATACTTTTCTCTTACAAGTCGTTCGGCTTCATCTGGATTTTCAGCCTCTATACTTACTAAACGTGAT
AAAGTTTCTGTAATTTCTACTGTATCGACCTGCAGACTGGCTGTGTATAAGGGAGCCTGACATTTATATT
CCCCAGAACATCAGGTTAATGGCGTTTTTGATGTCATTTTCGCGGTGGCTGAGATCAGCCACTTCTTCCC
CGATAACGGAGACCGGCACACTGGCCATATCGGTGGTCATCATGCGCCAGCTTTCATCCCCGATATGCAC
CACCGGGTAAAGTTCACGGGAGACTTTATCTGACAGCAGACGTGCACTGGCCAGGGGGATCACCATCCGT
CGCCCGGGCGTGTCAATAATATCACTCTGTACATCCACAAACAGACGATAACGGCTCTCTCTTTTATAGG
TGTAAACCTTAAACTGCATTTCACCAGTCCCTGTTCTCGTCAGCAAAAGAGCCGTTCATTTCAATAAACC
GGGCGACCTCAGCCATCCCTTCCTGATTTTCCGCTTTCCAGCGTTCGGCACGCAGACGACGGGCTTCATT
CTGCATGGTTGTGCTTACCAGACCGGAGATATTGACATCATATATGCCTTGAGCAACTGATAGCTGTCGC
TGTCAACTGTCACTGTAATACGCTGCTTCATAGCACACCTCTTTTTGACATACTTCGGGTATACATATCA
GTATATATTCTTATACCGCAAAAATCAGCGCGCAAATACGCATACTGTTATCTGGCTTTTAGTAAGCCGG
ATCCACGCGATTACGCCCCGCCCTGCCACTCATCGCAGTACTGTTGTAATTCATTAAGCATTCTGCCGAC
ATGGAAGCCATCACAGACGGCATGATGAACCTGAATCGCCAGCGGCATCAGCACCTTGTCGCCTTGCGTA
TAATATTTGCCCATGGTGAAAACGGGGGCGAAGAAGTTGTCCATATTGGCCACGTTTAAATCAAAACTGG
TGAAACTCACCCAGGGATTGGCTGAGACGAAAAACATATTCTCAATAAACCCTTTAGGGAAATAGGCCAG
GTTTTCACCGTAACACGCCACATCTTGCGAATATATGTGTAGAAACTGCCGGAAATCGTCGTGGTATTCA
CTCCAGAGCGATGAAAACGTTTCAGTTTGCTCATGGAAAACGGTGTAACAAGGGTGAACACTATCCCATA
TCACCAGCTCACCGTCTTTCATTGCCATACGGAATTCCGGATGAGCATTCATCAGGCGGGCAAGAATGTG
AATAAAGGCCGGATAAAACTTGTGCTTATTTTTCTTTACGGTCTTTAAAAAGGCCGTAATATCCAGCTGA
ACGGTCTGGTTATAGGTACATTGAGCAACTGACTGAAATGCCTCAAAATGTTCTTTACGATGCCATTGGG
ATATATCAACGGTGGTATATCCAGTGATTTTTTTCTCCATTTTAGCTTCCTTAGCTCCTGAAAATCTCGA
TAACTCAAAAAATACGCCCGGTAGTGATCTTATTTCATTATGGTGAAAGTTGGAACCTCTTACGTGCCGA
TCAACGTCTCATTTTCGCCAAAAGTTGGCCCAGGGCTTCCCGGTATCAACAGGGACACCAGGATTTATTT
ATTCTGCGAAGTGATCTTCCGTCACAGGTATTTATTCGGCGCAAAGTGCGTCGGGTGATGCTGCCAACTT
AGTCGACTACAGGTCACTAATACCATCTAAGTAGTTGATTCATAGTGACTGGATATGTTGTGTTTTACAG
TATTATGTAGTCTGTTTTTTATGCAAAATCTAATTTAATATATTGATATTTATATCATTTTACGTTTCTC
GTTCAGCTTTCTTGTACAAAGTGGTTGATCTAGAGGGCCCGCGGTTCGAAGGTAAGCCTATCCCTAACCC
TCTCCTCGGTCTCGATTCTACGCGTACCGGTTAGTAATGAGTTTAAACGGGGGAGGCTAACTGAAACACG
GAAGGAGACAATACCGGAAGGAACCCGCGCTATGACGGCAATAAAAAGACAGAATAAAACGCACGGGTGT
TGGGTCGTTTGTTCATAAACGCGGGGTTCGGTCCCAGGGCTGGCACTCTGTCGATACCCCACCGAGACCC
CATTGGGGCCAATACGCCCGCGTTTCTTCCTTTTCCCCACCCCACCCCCCAAGTTCGGGTGAAGGCCCAG
GGCTCGCAGCCAACGTCGGGGCGGCAGGCCCTGCCATAGCAGATCTGCGCAGCTGGGGCTCTAGGGGGTA

Table 28 (continued) Nucleotide sequence of plasmid pcDNA™6.2/V5-DEST
(SEQ ID NO: 112).

TCCCCACGCGCCCTGTAGCGGCGCATTAAGCGCGGCGGGTGTGGTGGTTACGCGCAGCGTGACCGCTACA
CTTGCCAGCGCCCTAGCGCCCGCTCCTTTCGCTTTCTTCCCTTCCTTTCTCGCCACGTTCGCCGGCTTTC
CCCGTCAAGCTCTAAATCGGGGCATCCCTTTAGGGTTCCGATTTAGTGCTTTACGGCACCTCGACCCCAA
AAAACTTGATTAGGGTGATGGTTCACGTAGTGGGCCATCGCCCTGATAGACGGTTTTTCGCCCTTTGACG
TTGGAGTCCACGTTCTTTAATAGTGGACTCTTGTTCCAAACTGGAACAACACTCAACCCTATCTCGGTCT
ATTCTTTTGATTTATAAGGGATTTTGGGGATTTCGGCCTATTGGTTAAAAAATGAGCTGATTTAACAAAA
ATTTAACGCGAATTAATTCTGTGGAATGTGTGTCAGTTAGGGTGTGGAAAGTCCCCAGGCTCCCCAGCAG
GCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCAGGTGTGGAAAGTCCCCAGGCTCCCCAGC
AGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCATAGTCCCGCCCCTAACTCCGCCCATC
CCGCCCCTAACTCCGCCCAGTTCCGCCCATTCTCCGCCCCATGGCTGACTAATTTTTTTTATTTATGCAG
AGGCCGAGGCCGCCTCTGCCTCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGGCCTAGGCTT
TTGCAAAAAGCTCCCGGGAGCTTGTATATCCATTTTCGGATCTGATCAGCACGTGTTGACAATTAATCAT
CGGCATAGTATATCGGCATAGTATAATACGACAAGGTGAGGAACTAAACCATGGCCAAGCCTTTGTCTCA
AGAAGAATCCACCCTCATTGAAAGAGCAACGGCTACAATCAACAGCATCCCCATCTCTGAAGACTACAGC
GTCGCCAGCGCAGCTCTCTCTAGCGACGGCCGCATCTTCACTGGTGTCAATGTATATCATTTTACTGGGG
GACCTTGTGCAGAACTCGTGGTGCTGGGCACTGCTGCTGCTGCGGCAGCTGGCAACCTGACTTGTATCGT
CGCGATCGGAAATGAGAACAGGGGCATCTTGAGCCCCTGCGGACGGTGCCGACAGGTGCTTCTCGATCTG
CATCCTGGGATCAAAGCCATAGTGAAGGACAGTGATGGACAGCCGACGGCAGTTGGGATTCGTGAATTGC
TGCCCTCTGGTTATGTGTGGGAGGGCTAAGCACTTCGTGGCCGAGGAGCAGGACTGACACGTGCTACGAG
ATTTCGATTCCACCGCCGCCTTCTATGAAAGGTTGGGCTTCGGAATCGTTTTCCGGGACGCCGGCTGGAT
GATCCTCCAGCGCGGGGATCTCATGCTGGAGTTCTTCGCCCACCCCAACTTGTTTATTGCAGCTTATAAT
GGTTACAAATAAAGCAATAGCATCACAAATTTCACAAATAAAGCATTTTTTTCACTGCATTCTAGTTGTG
GTTTGTCCAAACTCATCAATGTATCTTATCATGTCTGTATACCGTCGACCTCTAGCTAGAGCTTGGCGTA
ATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGA
AGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGC
CCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGG
TTTGCGTATTGGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGA
GCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACA
TGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCT.
CCGCCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAA
AGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGAT
ACCTGTCCGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATAGCTCACGCTGTAGGTATCTCAGTTC
GGTGTAGGTCGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTCAGCCCGACCGCTGCGCCTTA
TCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTA
ACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTA
CACTAGAAGAACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGC
TCTTGATCCGGCAAACAAACCACCGCTGGTAGCGGTTTTTTTGTTTGCAAGCAGCAGATTACGCGCAGAA
AAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACTCACG
TTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCTTTTAAATTAAAAATGAAGT
TTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCAC
CTATCTCAGCGATCTGTCTATTTCGTTCATCCATAGTTGCCTGACTCCCCGTCGTGTAGATAACTACGAT
ACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACCGCGAGACCCACGCTCACCGGCTCCAGAT
TTATCAGCAATAAACCAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCCTGCAACTTTATCCGCCTCCA
TCCAGTCTATTAATTGTTGCCGGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGCGCAACGTTGT
TGCCATTGCTACAGGCATCGTGGTGTCACGCTCGTCGTTTGGTATGGCTTCATTCAGCTCCGGTTCCCAA
CGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAAAAAGCGGTTAGCTCCTTCGGTCCTCCGATCG
TTGTCAGAAGTAAGTTGGCCGCAGTGTTATCACTCATGGTTATGGCAGCACTGCATAATTCTCTTACTGT
CATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTATG
CGGCGACCGAGTTGCTCTTGCCCGGCGTCAATACGGGATAATACCGCGCCACATAGCAGAACTTTAAAAG
TGCTCATCATTGGAAAACGTTCTTCGGGGCGAAAACTCTCAAGGATCTTACCGCTGTTGAGATCCAGTTC
GATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTACTTTCACCAGCGTTTCTGGGTGAGCA
AAAACAGGAAGGCAAAATGCCGCAAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATACTCATACTCT
TCCTTTTTCAATATTATTGAAGCATTTATCAGGGTTATTGTCTCATGAGCGGATACATATTTGAATGTAT
TTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGTGCCACCTGACGTC

Please amend Table 29 on pages 452 and 453 as follows:

Table 29: Nucleotide sequence of plasmid pcDNA™6.2/GFP-DEST (SEQ ID NO: 113).

GACGGATCGGGAGATCTCCCGATCCCCTATGGTGCACTCTCAGTACAATCTGCTCTGATGCCGCATAGTT
AAGCCAGTATCTGCTCCCTGCTTGTGTGTTGGAGGTCGCTGAGTAGTGCGCGAGCAAAATTTAAGCTACA
ACAAGGCAAGGCTTGACCGACAATTGCATGAAGAATCTGCTTAGGGTTAGGCGTTTTGCGCTGCTTCGCG
ATGTACGGGCCAGATATACGCGTTGACATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTC
ATTAGTTCATAGCCCATATATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCG
CCCAACGACCCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCC
ATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCC
AAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGTACATGACCTTA
TGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGATGCGGTTTTGGC
AGTACATCAATGGGCGTGGATAGCGGTTTGACTCACGGGGATTTCCAAGTCTCCACCCCATTGACGTCAA
TGGGAGTTTGTTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAACAACTCCGCCCCATTGACG
CAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCTCTGGCTAACTAGAGAACCCA
CTGCTTACTGGCTTATCGAAATTAATACGACTCACTATAGGGAGACCCAAGCTGGCTAGTTAAGCTATCA
ACAAGTTTGTACAAAAAAGCTGAACGAGAAACGTAAAATGATATAAATATCAATATATTAAATTAGATTT
TGCATAAAAAACAGACTACATAATACTGTAAAACACAACATATCCAGTCACTATGAATCAACTACTTAGA
TGGTATTAGTGACCTGTAGTCGACCGACAGCCTTCCAAATGTTCTTCGGGTGATGCTGCCAACTTAGTCG
ACCGACAGCCTTCCAAATGTTCTTCTCAAACGGAATCGTCGTATCCAGCCTACTCGCTATTGTCCTCAAT
GCCGTATTAAATCATAAAAAGAAATAAGAAAAAGAGGTGCGAGCCTCTTTTTTGTGTGACAAAATAAAAA
CATCTACCTATTCATATACGCTAGTGTCATAGTCCTGAAAATCATCTGCATCAAGAACAATTTCACAACT
CTTATACTTTTCTCTTACAAGTCGTTCGGCTTCATCTGGATTTTCAGCCTCTATACTTACTAAACGTGAT
AAAGTTTCTGTAATTTCTACTGTATCGACCTGCAGACTGGCTGTGTATAAGGGAGCCTGACATTTATATT
CCCCAGAACATCAGGTTAATGGCGTTTTTGATGTCATTTTCGCGGTGGCTGAGATCAGCCACTTCTTCCC
CGATAACGGAGACCGGCACACTGGCCATATCGGTGGTCATCATGCGCCAGCTTTCATCCCCGATATGCAC
CACCGGGTAAAGTTCACGGGAGACTTTATCTGACAGCAGACGTGCACTGGCCAGGGGGATCACCATCCGT
CGCCCGGGCGTGTCAATAATATCACTCTGTACATCCACAAACAGACGATAACGGCTCTCTCTTTTATAGG
TGTAAACCTTAAACTGCATTTCACCAGTCCCTGTTCTCGTCAGCAAAAGAGCCGTTCATTTCAATAAACC
GGGCGACCTCAGCCATCCCTTCCTGATTTTCCGCTTTCCAGCGTTCGGCACGCAGACGACGGGCTTCATT
CTGCATGGTTGTGCTTACCAGACCGGAGATATTGACATCATATATGCCTTGAGCAACTGATAGCTGTCGC
TGTCAACTGTCACTGTAATACGCTGCTTCATAGCACACCTCTTTTTGACATACTTCGGGTATACATATCA
GTATATATTCTTATACCGCAAAAATCAGCGCGCAAATACGCATACTGTTATCTGGCTTTTAGTAAGCCGG
ATCCACGCGATTACGCCCCGCCCTGCCACTCATCGCAGTACTGTTGTAATTCATTAAGCATTCTGCCGAC
ATGGAAGCCATCACAGACGGCATGATGAACCTGAATCGCCAGCGGCATCAGCACCTTGTCGCCTTGCGTA
TAATATTTGCCCATGGTGAAAACGGGGGCGAAGAAGTTGTCCATATTGGCCACGTTTAAATCAAAACTGG
TGAAACTCACCCAGGGATTGGCTGAGACGAAAAACATATTCTCAATAAACCCTTTAGGGAAATAGGCCAG
GTTTTCACCGTAACACGCCACATCTTGCGAATATATGTGTAGAAACTGCCGGAAATCGTCGTGGTATTCA
CTCCAGAGCGATGAAAACGTTTCAGTTTGCTCATGGAAAACGGTGTAACAAGGGTGAACACTATCCCATA
TCACCAGCTCACCGTCTTTCATTGCCATACGGAATTCCGGATGAGCATTCATCAGGCGGGCAAGAATGTG
AATAAAGGCCGGATAAAACTTGTGCTTATTTTTCTTTACGGTCTTTAAAAAGGCCGTAATATCCAGCTGA
ACGGTCTGGTTATAGGTACATTGAGCAACTGACTGAAATGCCTCAAAATGTTCTTTACGATGCCATTGGG
ATATATCAACGGTGGTATATCCAGTGATTTTTTTCTCCATTTTAGCTTCCTTAGCTCCTGAAAATCTCGA
TAACTCAAAAAATACGCCCGGTAGTGATCTTATTTCATTATGGTGAAAGTTGGAACCTCTTACGTGCCGA
TCAACGTCTCATTTTCGCCAAAAGTTGGCCCAGGGCTTCCCGGTATCAACAGGGACACCAGGATTTATTT
ATTCTGCGAAGTGATCTTCCGTCACAGGTATTTATTCGGCGCAAAGTGCGTCGGGTGATGCTGCCAACTT
AGTCGACTACAGGTCACTAATACCATCTAAGTAGTTGATTCATAGTGACTGGATATGTTGTGTTTTACAG
TATTATGTAGTCTGTTTTTTATGCAAAATCTAATTTAATATATTGATATTTATATCATTTTACGTTTCTC
GTTCAGCTTTCTTGTACAAAGTGGTTGATCTAGAGGGCCCGCGGCTAGCAAAGGAGAAGAACTTTTCAC
TGGAGTTGTCCCAATTCTTGTTGAATTAGATGGTGATGTTAATGGGCACAAATTTTCTGTCAGTGGAGAG
GGTGAAGGTGATGCTACATACGGAAAGCTTACCCTTAAATTTATTTGCACTACTGGAAAACTACCTGTTC
CATGGCCAACACTTGTCACTACTTTCTCTTATGGTGTTCAATGCTTTTCCCGTTATCCGGATCATATGAA
ACGGCATGACTTTTTCAAGAGTGCCATGCCCGAAGGTTATGTACAGGAACGCACTATATCTTTCAAAGAT
GACGGGAACTACAAGACGCGTGCTGAAGTCAAGTTTGAAGGTGATACCCTTGTTAATCGTATCGAGTTAA
AAGGTATTGATTTTAAAGAAGATGGAAACATTCTCGGACACAAACTCGAGTACAACTATAACTCACACAA

Table 29 (continued) Nucleotide sequence of plasmid pcDNA™6.2/GFP-DEST (SEQ ID NO: 113).

TGTATACATCACGGCAGACAAACAAAAGAATGGAATCAAAGCTAACTTCAAAATTCGTCACAACATTGAA
GATGGATCCGTTCAACTAGCAGACCATTATCAACAAAATACTCCAATTGGCGATGGCCCTGTCCTTTTAC
CAGACAACCATTACCTGTCGACACAATCTGCCCTTTCGAAAGATCCCAACGAAAAGCGTGACCACATGGT
CCTTCTTGAGTTTGTAACTGCTGCTGGGATTACACATGGCATGGATGAATAGTAATGAGTCCACGTTTAA
ACGGGGGAGGCTAACTGAAACACGGAAGGAGACAATACCGGAAGGAACCCGCGCTATGACGGCAATAAAA
AGACAGAATAAAACGCACGGGTGTTGGGTCGTTTGTTCATAAACGCGGGGTTCGGTCCCAGGGCTGGCAC
TCTGTCGATACCCCACCGAGACCCCATTGGGGCCAATACGCCCGCGTTTCTTCCTTTTCCCCACCCCACC
CCCCAAGTTCGGGTGAAGGCCCAGGGCTCGCAGCCAACGTCGGGGCGGCAGGCCCTGCCATAGCAGATCT
GCGCAGCTGGGGCTCTAGGGGGTATCCCCACGCGCCCTGTAGCGGCGCATTAAGCGCGGCGGGTGTGGTG
GTTACGCGCAGCGTGACCGCTACACTTGCCAGCGCCCTAGCGCCCGCTCCTTTCGCTTTCTTCCCTTCCT
TTCTCGCCACGTTCGCCGGCTTTCCCCGTCAAGCTCTAAATCGGGGCATCCCTTTAGGGTTCCGATTTAG
TGCTTTACGGCACCTCGACCCCAAAAAACTTGATTAGGGTGATGGTTCACGTAGTGGGCCATCGCCCTGA
TAGACGGTTTTTCGCCCTTTGACGTTGGAGTCCACGTTCTTTAATAGTGGACTCTTGTTCCAAACTGGAA
CAACACTCAACCCTATCTCGGTCTATTCTTTTGATTTATAAGGGATTTTGGGGATTTCGGCCTATTGGTT
AAAAAATGAGCTGATTTAACAAAAATTTAACGCGAATTAATTCTGTGGAATGTGTGTCAGTTAGGGTGTG
GAAAGTCCCCAGGCTCCCCAGCAGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCAGGTG
TGGAAAGTCCCCAGGCTCCCCAGCAGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCATA
GTCCCGCCCCTAACTCCGCCCATCCCGCCCCTAACTCCGCCCAGTTCCGCCCATTCTCCGCCCCATGGCT
GACTAATTTTTTTTATTTATGCAGAGGCCGAGGCCGCCTCTGCCTCTGAGCTATTCCAGAAGTAGTGAGG
AGGCTTTTTTGGAGGCCTAGGCTTTTGCAAAAAGCTCCCGGGAGCTTGTATATCCATTTTCGGATCTGAT
CAGCACGTGTTGACAATTAATCATCGGCATAGTATATCGGCATAGTATAATACGACAAGGTGAGGAACTA
AACCATGGCCAAGCCTTTGTCTCAAGAAGAATCCACCCTCATTGAAAGAGCAACGGCTACAATCAACAGC
ATCCCCATCTCTGAAGACTACAGCGTCGCCAGCGCAGCTCTCTCTAGCGACGGCCGCATCTTCACTGGTG
TCAATGTATATCATTTTACTGGGGGACCTTGTGCAGAACTCGTGGTGCTGGGCACTGCTGCTGCTGCGGC
AGCTGGCAACCTGACTTGTATCGTCGCGATCGGAAATGAGAACAGGGGCATCTTGAGCCCCTGCGGACGG
TGCCGACAGGTGCTTCTCGATCTGCATCCTGGGATCAAAGCCATAGTGAAGGACAGTGATGGACAGCCGA
CGGCAGTTGGGATTCGTGAATTGCTGCCCTCTGGTTATGTGTGGGAGGGCTAAGCACTTCGTGGCCGAGG
AGCAGGACTGACACGTGCTACGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGGTTGGGCTTCGGAAT
CGTTTTCCGGGACGCCGGCTGGATGATCCTCCAGCGCGGGGATCTCATGCTGGAGTTCTTCGCCCACCCC
AACTTGTTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTCACAAATAAAGCAT
TTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAAACTCATCAATGTATCTTATCATGTCTGTATACCGTC
GACCTCTAGCTAGAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACA
ATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCA
CATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAAT
CGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTG
CGCTCGGTCGTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAAT
CAGGGGATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGC
GTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGG
TGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTG
TTCCGACCCTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATAG
CTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTCGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCC
GTTCAGCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTAT
CGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTT
GAAGTGGTGGCCTAACTACGGCTACACTAGAAGAACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTT
ACCTTCGGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAACAAACCACCGCTGGTAGCGGTTTTTTTGTTT
GCAAGCAGCAGATTACGCGCAGAAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGGTCTGA
CGCTCAGTGGAACGAAAACTCACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAG
ATCCTTTTAAATTAAAAATGAAGTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTT
ACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTCGTTCATCCATAGTTGCCTGACT
CCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACCGCGA
GACCCACGCTCACCGGCTCCAGATTTATCAGCAATAAACCAGCCAGCCGGAAGGGCCGAGCGCAGAAGTG
GTCCTGCAACTTTATCCGCCTCCATCCAGTCTATTAATTGTTGCCGGGAAGCTAGAGTAAGTAGTTCGCC
AGTTAATAGTTTGCGCAACGTTGTTGCCATTGCTACAGGCATCGTGGTGTCACGCTCGTCGTTTGGTATG

Table 29 (continued) Nucleotide sequence of plasmid pcDNA™6.2/GFP-DEST (SEQ ID NO: 113).

GCTTCATTCAGCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAAAAAGCGG
TTAGCTCCTTCGGTCCTCCGATCGTTGTCAGAAGTAAGTTGGCCGCAGTGTTATCACTCATGGTTATGGC
AGCACTGCATAATTCTCTTACTGTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACC
AAGTCATTCTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAATACGGGATAATACCG
CGCCACATAGCAGAACTTTAAAAGTGCTCATCATTGGAAAACGTTCTTCGGGGCGAAAACTCTCAAGGAT
CTTACCGCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTACT
TTCACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGCAAAAAAGGGAATAAGGGCGACAC
GGAAATGTTGAATACTCATACTCTTCCTTTTTCAATATTATTGAAGCATTTATCAGGGTTATTGTCTCAT
GAGCGGATACATATTTGAATGTATTTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAA
GTGCCACCTGACGTC

Please amend Table 30 on page 454 as follows:

Table 30: Amino acid sequence of a polypeptide having β-lactamase activity <u>(SEQ ID NO: 114)</u>.

```
Met Gly His Pro Glu Thr Leu Val Lys Val Lys Asp Ala Glu Asp Gln
 1               5                  10                  15
Leu Gly Ala Arg Val Gly Tyr Ile Glu Leu Asp Leu Asn Ser Gly Lys
            20                  25                  30
Ile Leu Glu Ser Phe Arg Pro Glu Glu Arg Phe Pro Met Met Ser Thr
        35                  40                  45
Phe Lys Val Leu Leu Cys Gly Ala Val Leu Ser Arg Asp Asp Ala Gly
    50                  55                  60
Gln Glu Gln Leu Gly Arg Arg Ile His Tyr Ser Gln Asn Asp Leu Val
65                  70                  75                  80
Glu Tyr Ser Pro Val Thr Glu Lys His Leu Thr Asp Gly Met Thr Val
                85                  90                  95
Arg Glu Leu Cys Ser Ala Ala Ile Thr Met Ser Asp Asn Thr Ala Ala
            100                 105                 110
Asn Leu Leu Leu Thr Thr Ile Gly Gly Pro Lys Glu Leu Thr Ala Phe
        115                 120                 125
Leu His Asn Met Gly Asp His Val Thr Arg Leu Asp His Trp Glu Pro
    130                 135                 140
Glu Leu Asn Glu Ala Ile Pro Asn Asp Glu Arg Asp Thr Thr Met Pro
145                 150                 155                 160
Val Ala Met Ala Thr Thr Leu Arg Lys Leu Leu Thr Gly Glu Leu Leu
                165                 170                 175
Thr Leu Ala Ser Arg Gln Gln Leu Ile Asp Trp Met Glu Ala Asp Lys
            180                 185                 190
Val Ala Gly Pro Leu Leu Arg Ser Ala Leu Pro Ala Gly Trp Phe Ile
        195                 200                 205
Ala Asp Lys Ser Gly Ala Gly Glu Arg Gly Ser Arg Gly Ile Ile Ala
    210                 215                 220
Ala Leu Gly Pro Asp Gly Lys Pro Ser Arg Ile Val Val Ile Tyr Thr
225                 230                 235                 240
Thr Gly Ser Gln Ala Thr Met Asp Glu Arg Asn Arg Gln Ile Ala Glu
                245                 250                 255
Ile Gly Ala Ser Leu Ile Lys His Trp
    260         265
```

Please amend Table 31 on pages 455 and 456 as follows:

Table 31: Nucleotide sequence of pLenti4TO/V5-DEST (SEQ ID NO: 115).

aatgtagtcttatgcaatactcttgtagtcttgcaacatggtaacgatgagttagcaacatgccttacaaggagaga
aaaagcaccgtgcatgccgattggtggaagtaaggtggtacgatcgtgccttattaggaaggcaacagacgggtctg
acatggattggacgaaccactgaattgccgcattgcagagatattgtatttaagtgcctagctcgatacataaacgg
gtctctctggttagaccagatctgagcctgggagctctctggctaactagggaacccactgcttaagcctcaataaa
gcttgccttgagtgcttcaagtagtgtgtgcccgtctgttgtgtgactctggtaactagagatccctcagaccctttt
tagtcagtgtggaaaatctctagcagtggcgcccgaacagggacttgaaagcgaaagggaaaccagaggagctctct
cgacgcaggactcggcttgctgaagcgcgcacggcaagaggcgaggggcggcgactggtgagtacgccaaaaatttt
gactagcggaggctagaaggagagagatgggtgcgagagcgtcagtattaagcgggggagaattagatcgcgatggg
aaaaaattcggttaaggccagggggaaagaaaaaatataaattaaaacatatagtatgggcaagcagggagctagaa
cgattcgcagttaatcctggcctgttagaaacatcagaaggctgtagacaaatactgggacagctacaaccatccct
tcagacaggatcagaagaacttagatcattatataatacagtagcaaccctctattgtgtgcatcaaaggatagaga
taaaagacaccaaggaagctttagacaagatagaggaagagcaaaacaaaagtaagaccaccgcacagcaagcggcc
gctgatcttcagacctggaggaggagatatgagggacaattggagaagtgaattatataaatataaagtagtaaaaa
ttgaaccattaggagtagcacccaccaaggcaaagagaagagtggtgcagagagaaaaaagagcagtgggaatagga
gctttgttccttgggttcttgggagcagcaggaagcactatgggcgcagcgtcaatgacgctgacggtacaggccag
acaattattgtctggtatagtgcagcagcagaacaatttgctgagggctattgaggcgcaacagcatctgttgcaac
tcacagtctggggcatcaagcagctccaggcaagaatcctggctgtggaaagatacctaaaggatcaacagctcctg
gggatttggggttgctctggaaaactcatttgcaccactgctgtgccttggaatgctagttggagtaataaatctct
ggaacagatttggaatcacacgacctggatggagtgggacagagaaattaacaattacacaagcttaatacactcct
taattgaagaatcgcaaaaccagcaagaaaagaatgaacaagaattattggaattagataaatgggcaagtttgtgg
aattggtttaacataacaaattggctgtggtatataaaattattcataatgatagtaggaggcttggtaggtttaag
aatagttttgctgtactttctatagtgaatagagttaggcagggatattcaccattatcgtttcagacccacctcc
caaccccgaggggacccgacaggcccgaaggaatagaagaagaaggtggagagagagacagagacagatccattcga
ttagtgaacggatctcgacggtatcgataagcttgggagttccgcgttacataacttacggtaaatggcccgcctgg
ctgaccgcccaacgacccccgcccattgacgtcaataatgacgtatgttcccatagtaacgccaatagggactttcc
attgacgtcaatgggtggagtatttacggtaaactgcccacttggcagtacatcaagtgtatcatatgccaagtacg
ccccctattgacgtcaatgacggtaaatggcccgcctggcattatgcccagtacatgaccttatgggactttcctac
ttggcagtacatctacgtattagtcatcgctattaccatggtgatgcggttttggcagtacatcaatgggcgtggat
agcggtttgactcacggggatttccaagtctccaccccattgacgtcaatgggagtttgttttggcaccaaaatcaa
cgggactttccaaaatgtcgtaacaactccgccccattgacgcaaatgggcggtaggcgtgtacggtgggaggtcta
tataagcagagctctccctatcagtgatagagatctccctatcagtgatagagatcgtcgactagtccagtgtggtg
gaattctgcagatatcaacaagtttgtacaaaaaagctgaacgagaaacgtaaaatgatataaatatcaatatatta
aattagattttgcataaaaaacagactacataatactgtaaaacacaacatatccagtcactatggcggccgcatta
ggcaccccaggctttacactttatgcttccggctcgtataatgtgtggattttgagttaggatccggcgagattttc
aggagctaaggaagctaaaatggagaaaaaaatcactggatataccaccgttgatatatcccaatggcatcgtaaag
aacattttgaggcatttcagtcagttgctcaatgtacctataaccagaccgttcagctggatattacggcctttta
aagaccgtaaagaaaaataagcacaagttttatccggcctttattcacattcttgcccgcctgatgaatgctcatcc
ggaattccgtatggcaatgaaagacggtgagctggtgatatgggatagtgttcacccttgttacaccgttttccatg
agcaaactgaaacgttttcatcgctctggagtgaataccacgacgatttccggcagtttctacacatatattcgcaa
gatgtggcgtgttacggtgaaaacctggcctatttccctaaagggtttattgagaatatgtttttcgtctcagccaa
tccctgggtgagtttcaccagttttgatttaaacgtggccaatatggacaacttcttcgcccccgttttcaccatgg
gcaaatattatacgcaaggcgacaaggtgctgatgccgctggcgattcaggttcatcatgccgtctgtgatggcttc
catgtcggcagaatgcttaatgaattacaacagtactgcgatgagtggcagggcggggcgtaaagatctggatccgg
cttactaaaagccagataacagtatgcgtatttgcgcgctgatttttgcggtataagaatatatactgatatgtata
cccgaagtatgtcaaaaagaggtgtgctatgaagcagcgtattacagtgacagttgacagcgacagctatcagttgc
tcaaggcatatatgatgtcaatatctccggtctggtaagcacaaccatgcagaatgaagcccgtcgtctgcgtgccg
aacgctggaaagcggaaaatcaggaagggatggctgaggtcgcccggtttattgaaatgaacggctcttttgctgac
gagaacagggactggtgaaatgcagtttaaggtttacacctataaaagagagagccgttatcgtctgtttgtggatg
tacagagtgatattattgacacgcccgggcgacggatggtgatccccctggccagtgcacgtctgctgtcagataaa
gtctcccgtgaactttacccggtggtgcatatcggggatgaaagctggcgcatgatgaccaccgatatggccagtgt
gccggtctccgttatcggggaagaagtggctgatctcagccaccgcgaaaatgacatcaaaaacgccattaacctga

Table 31 (continued) Nucleotide sequence of pLenti4TO/V5-DEST SEQ ID NO: 115).

tgttctggggaatataaatgtcaggctccgttatacacagccagtctgcaggtcgaccatagtgactggatatgttg
tgttttacagtattatgtagtctgtttttatgcaaaatctaatttaatatattgatatttatatcattttacgttt
ctcgttcagctttcttgtacaaagtggttgatatccagcacagtggcggccgctcgagtctagagggcccgcggttc
gaaggtaagcctatccctaaccctctcctcggtctcgattctacgcgtaccggttagtaatgagtttggaattaatt
ctgtggaatgtgtgtcagttagggtgtggaaagtccccaggctccccaggcaggcagaagtatgcaaagcatgcatc
tcaattagtcagcaaccaggtgtggaaagtccccaggc
tccccagcaggcagaagtatgcaaagcatgcatctcaattagtcagcaaccatagtcccgcccctaactccgcccat
cccgcccctaactccgcccagttccgcccattctccgccccatggctgactaattttttttatttatgcagaggccg
aggccgcctctgcctctgagctattccagaagtagtgaggaggcttttttggaggcctaggcttttgcaaaaagctc
cccctgttgacaattaatcatcggcatagtatatcggcatagtataatacgacaaggtgaggaactaaaccatggcc
aagttgaccagtgccgttccggtgctcaccgcgcgcgacgtcgccggagcggtcgagttctggaccgaccggctcgg
gttctcccgggacttcgtggaggacgacttcgccggtgtggtccgggacgacgtgaccctgttcatcagcgcggtcc
aggaccaggtggtgccggacaacaccctggcctgggtgtgggtgcgcggcctggacgagctgtacgccgagtggtcg
gaggtcgtgtccacgaacttccgggacgcctccgggccggccatgaccgagatcggcgagcagccgtgggggcggga
gttcgccctgcgcgacccggccggcaactgcgtgcacttcgtggccgaggagcaggactgacacgtgctacgagatt
taaatggtacctttaagaccaatgacttacaaggcagctgtagatcttagccactttttaaaagaaaaggggggact
ggaagggctaattcactcccaacgaagacaagatctgctttttgcttgtactgggtctctctggttagaccagatct
gagcctgggagctctctggctaactagggaacccactgcttaagcctcaataaagcttgccttgagtgcttcaagta
gtgtgtgcccgtctgttgtgtgactctggtaactagagatccctcagacccttttagtcagtgtggaaaatctctag
cagtagtagttcatgtcatcttattattcagtatttataacttgcaaagaaatgaatatcagagagtgagaggaact
tgtttattgcagcttataatggttacaaataaagcaatagcatcacaaatttcacaaataaagcatttttttcactg
cattctagttgtggtttgtccaaactcatcaatgtatcttatcatgtctggctctagctatcccgcccctaactccg
cccatcccgcccctaactccgcccagttccgcccattctccgccccatggctgactaattttttttatttatgcaga
ggccgaggccgcctcggcctctgagctattccagaagtagtgaggaggcttttttggaggcctagggacgtacccaa
ttcgccctatagtgagtcgtattacgcgcgctcactggccgtcgttttacaacgtcgtgactgggaaaaccctggcg
ttacccaacttaatcgccttgcagcacatccccctttcgccagctggcgtaatagcgaagaggcccgcaccgatcgc
ccttcccaacagttgcgcagcctgaatggcgaatggacgcgccctgtagcggcgcattaagcgcggcgggtgtggt
ggttacgcgcagcgtgaccgctacacttgccagcgccctagcgcccgctcctttcgctttcttcccttcctttctcg
ccacgttcgccggctttccccgtcaagctctaaatcgggggctccctttagggttccgatttagtgctttacggcac
ctcgaccccaaaaaacttgattagggtgatggttcacgtagtgggccatcgccctgatagacggtttttcgcccttt
gacgttggagtccacgttctttaatagtggactcttgttccaaactggaacaacactcaaccctatctcggtctatt
cttttgatttataagggattttgccgatttcggcctattggttaaaaaatgagctgatttaacaaaaatttaacgcg
aattttaacaaaatattaacgcttacaatttaggtggcacttttcggggaaatgtgcgcggaacccctatttgttta
tttttctaaatacattcaaatatgtatccgctcatgagacaataaccctgataaatgcttcaataatattgaaaaag
gaagagtatgagtattcaacatttccgtgtcgcccttattcccttttttgcggcattttgccttcctgtttttgctc
acccagaaacgctggtgaaagtaaaagatgctgaagatcagttgggtgcacgagtgggttacatcgaactggatctc
aacagcggtaagatccttgagagttttcgccccgaagaacgttttccaatgatgagcacttttaaagttctgctatg
tggcgcggtattatcccgtattgacgccgggcaagagcaactcggtcgccgcatacactattctcagaatgacttgg
ttgagtactcaccagtcacagaaaagcatcttacggatggcatgacagtaagagaattatgcagtgctgccataacc
atgagtgataacactgcggccaacttacttctgacaacgatcggaggaccgaaggagctaaccgcttttttgcacaa
catgggggatcatgtaactcgccttgatcgttgggaaccggagctgaatgaagccataccaaacgacgagcgtgaca
ccacgatgcctgtagcaatggcaacaacgttgcgcaaactattaactggcgaactacttactctagcttcccggcaa
caattaatagactggatggaggcggataaagttgcaggaccacttctgcgctcggcccttccggctggctggtttat
tgctgataaatctggagccggtgagcgtgggtctcgcggtatcattgcagcactggggccagatggtaagccctccc
gtatcgtagttatctacacgacggggagtcaggcaactatggatgaacgaaatagacagatcgctgagataggtgcc
tcactgattaagcattggtaactgtcagaccaagtttactcatatatactttagattgatttaaaacttcattttta
atttaaaaggatctaggtgaagatcctttttgataatctcatgaccaaaatcccttaacgtgagttttcgttccact
gagcgtcagaccccgtagaaaagatcaaaggatcttcttgagatcctttttttctgcgcgtaatctgctgcttgcaa
acaaaaaaaccaccgctaccagcggtggtttgtttgccggatcaagagctaccaactctttttccgaaggtaactgg
cttcagcagagcgcagataccaaatactgttcttctagtgtagccgtagttaggccaccacttcaagaactctgtag
caccgcctacatacctcgctctgctaatcctgttaccagtggctgctgccagtggcgataagtcgtgtcttaccggg
ttggactcaagacgatagttaccggataaggcgcagcggtcgggctgaacggggggttcgtgcacacagcccagctt
ggagcgaacgacctacaccgaactgagatacctacagcgtgagctatgagaaagcgccacgcttcccgaagggagaa
aggcggacaggtatccggtaagcggcagggtcggaacaggagagcgcacgagggagcttccagggggaaacgcctgg
tatctttatagtcctgtcgggtttcgccacctctgacttgagcgtcgatttttgtgatgctcgtcaggggggcggag

Table 31 (continued) Nucleotide sequence of pLenti4TO/V5-DEST SEQ ID NO: 115).

```
cctatggaaaaacgccagcaacgcggcctttttacggttcctggccttttgctggccttttgctcacatgttctttc
ctgcgttatcccctgattctgtggataaccgtattaccgcctttgagtgagctgataccgctcgccgcagccgaacg
accgagcgcagcgagtcagtgagcgaggaagcggaagagcgcccaatacgcaaaccgcctctccccgcgcgttggcc
gattcattaatgcagctggcacgacaggtttcccgactggaaagcgggcagtgagcgcaacgcaattaatgtgagtt
agctcactcattaggcaccccaggctttacactttatgcttccggctcgtatgttgtgtggaattgtgagcggataa
caatttcacacaggaaacagctatgaccatgattacgccaagcgcgcaattaaccctcactaaagggaacaaaagct
ggagctgcaagctt
```

Please amend Table 32 on pages 457 and 458 as follows:

Table 32: Nucleotide sequence of pLenti6/TR (SEQ ID NO: 116).

```
aatgtagtcttatgcaatactcttgtagtcttgcaacatggtaacgatgagttagcaacatgccttacaaggagaga
aaaagcaccgtgcatgccgattggtggaagtaaggtggtacgatcgtgccttattaggaaggcaacagacgggtctg
acatggattggacgaaccactgaattgccgcattgcagagatattgtatttaagtgcctagctcgatacataaacgg
gtctctctggttagaccagatctgagcctgggagctctctggctaactagggaacccactgcttaagcctcaataaa
gcttgccttgagtgcttcaagtagtgtgtgcccgtctgttgtgtgactctggtaactagagatccctcagaccctttt
tagtcagtgtggaaaatctctagcagtggcgcccgaacagggacttgaaagcgaaagggaaaccagaggagctctct
cgacgcaggactcggcttgctgaagcgcgcacggcaagaggcgaggggcggcgactggtgagtacgccaaaaatttt
gactagcggaggctagaaggagagagatgggtgcgagagcgtcagtattaagcgggggagaattagatcgcgatggg
aaaaaattcggttaaggccagggggaaagaaaaaatataaattaaaacatatagtatgggcaagcagggagctagaa
cgattcgcagttaatcctggcctgttagaaacatcagaaggctgtagacaaatactgggacagctacaaccatccct
tcagacaggatcagaagaacttagatcattatataatacagtagcaaccctctattgtgtgcatcaaaggatagaga
taaaagacaccaaggaagctttagacaagatagaggaagagcaaaacaaaagtaagaccaccgcacagcaagcggcc
gctgatcttcagacctggaggaggagatatgagggacaattggagaagtgaattatataaatataaagtagtaaaaa
ttgaaccattaggagtagcacccaccaaggcaaagagaagagtggtgcagagagaaaaaagagcagtgggaatagga
gctttgttccttgggttcttgggagcagcaggaagcactatgggcgcagcgtcaatgacgctgacggtacaggccag
acaattattgtctggtatagtgcagcagcagaacaatttgctgagggctattgaggcgcaacagcatctgttgcaac
tcacagtctggggcatcaagcagctccaggcaagaatcctggctgtggaaagatacctaaaggatcaacagctcctg
gggatttggggttgctctggaaaactcatttgcaccactgctgtgccttggaatgctagttggagtaataaatctct
ggaacagatttggaatcacacgacctggatggagtgggacagagaaattaacaattacacaagcttaatacactcct
taattgaagaatcgcaaaaccagcaagaaaagaatgaacaagaattattggaattagataaatgggcaagtttgtgg
aattggtttaacataacaaattggctgtggtatataaaattattcataatgatagtaggaggcttggtaggtttaag
aatagttttgctgtactttctatagtgaatagagttaggcagggatattcaccattatcgtttcagacccacctcc
caaccccgaggggacccgacaggcccgaaggaatagaagaagaaggtggagagagagacagagacagatccattcga
ttagtgaacggatctcgacggtatcgataagcttgggagttccgcgttacataacttacggtaaatggcccgcctgg
ctgaccgcccaacgacccccgcccattgacgtcaataatgacgtatgttcccatagtaacgccaatagggactttcc
attgacgtcaatgggtggagtatttacggtaaactgcccacttggcagtacatcaagtgtatcatatgccaagtacg
ccccctattgacgtcaatgacggtaaatggcccgcctggcattatgcccagtacatgaccttatgggactttcctac
ttggcagtacatctacgtattagtcatcgctattaccatggtgatgcggttttggcagtacatcaatgggcgtggat
agcggtttgactcacggggatttccaagtctccaccccattgacgtcaatgggagtttgttttggcaccaaaatcaa
cgggactttccaaaatgtcgtaacaactccgccccattgacgcaaatgggcggtaggcgtgtacggtgggaggtcta
tataagcagagctcgtttagtgaaccgtcagatcgcctggagacgccatccacgctgttttgacctccatagaagac
accgactctagaggatccactagtccagtgtggtggaattctgcagatagcttggtacccggggatcctctagggcc
tctgagctattccagaagtagtgaagaggcttttttggaggcctaggcttttgcaaaaagctccggatcgatcctga
gaacttcagggtgagtttggggacccttgattgttctttctttttcgctattgtaaaattcatgttatatggagggg
gcaaagttttcagggtgttgtttagaatgggaagatgtcccttgtatcaccatggaccctcatgataattttgtttc
tttcactttctactctgttgacaaccattgtctcctcttattttcttttcattttctgtaactttttcgttaaactt
tagcttgcatttgtaacgaattttaaattcacttttgtttatttgtcagattgtaagtactttctctaatcacttt
tttttcaaggcaatcagggtatattatattgtacttcagcacagttttagagaacaattgttataattaaatgataa
ggtagaatatttctgcatataaattctggctggcgtggaaatattcttattggtagaaacaactacatcctggtcat
catcctgcctttctctttatggttacaatgatatacactgtttgagatgaggataaaatactctgagtccaaaccgg
gcccctctgctaaccatgttcatgccttcttctttttcctacagctcctgggcaacgtgctggttattgtgctgtct
catcattttggcaaagaattgtaatacgactcactatagggcgaattgatatgtctagattagataaaagtaaagtg
attaacagcgcattagagctgcttaatgaggtcggaatcgaaggtttaacaacccgtaaactcgcccagaagctagg
tgtagagcagcctacattgtattggcatgtaaaaaataagcgggctttgctcgacgccttagccattgagatgttag
ataggcaccatactcacttttgccctttagaaggggaaagctggcaagatttttacgtaataacgctaaaagtttt
agatgtgctttactaagtcatcgcgatggagcaaaagtacatttaggtacacggcctacagaaaaacagtatgaaac
tctcgaaaatcaattagccttttatgccaacaaggtttttcactagagaatgcattatatgcactcagcgctgtgg
ggcattttactttaggttgcgtattggaagatcaagagcatcaagtcgctaaagaagaaagggaaacacctactact
gatagtatgccgccattattacgacaagctatcgaattatttgatcaccaaggtgcagagccagccttcttattcgg
ccttgaattgatcatatgcggattagaaaaacaacttaaatgtgaaagtgggtccgcgtacagcggatcccgggaat
tctagagggcccgcggttcgaacaaaaactcatctcagaagaggatctgaatatgcataccggttagtaatgagttt
```

Table 32 (continued) Nucleotide sequence of pLenti6/TR (SEQ ID NO: 116).

ggaattaattctgtggaatgtgtgtcagttagggtgtggaaagtccccaggctccccaggcaggcagaagtatgcaa
agcatgcatctcaattagtcagcaaccaggtgtggaaagtccccaggctccccagcaggcagaagtatgcaaagcat
gcatctcaattagtcagcaaccatagtcccgcccctaactccgcccatcccgcccctaactccgcccagttccgccc
attctccgccccatggctgactaattttttttatttatgcagaggccgaggccgcctctgcctctgagctattccag
aagtagtgaggaggcttttttggaggcctaggcttttgcaaaaagctcccgggagcttgtatatccattttcggatc
tgatcagcacgtgttgacaattaatcatcggcatagta
tatcggcatagtataatacgacaaggtgaggaactaaaccatggccaagcctttgtctcaagaagaatccaccctca
ttgaaagagcaacggctacaatcaacagcatccccatctctgaagactacagcgtcgccagcgcagctctctctagc
gacggccgcatcttcactggtgtcaatgtatatcattttactgggggaccttgtgcagaactcgtggtgctgggcac
tgctgctgctgcggcagctggcaacctgacttgtatcgtcgcgatcggaaatgagaacaggggcatcttgagcccct
gcggacggtgccgacaggtgcttctcgatctgcatcctgggatcaaagccatagtgaaggacagtgatggacagccg
acggcagttgggattcgtgaattgctgccctctggttatgtgtgggagggctaagcacaattcgagctcggtacctt
taagaccaatgacttacaaggcagctgtagatcttagccactttttaaaagaaaaggggggactggaagggctaatt
cactcccaacgaagacaagatctgctttttgcttgtactgggtctctctggttagaccagatctgagcctgggagct
ctctggctaactagggaacccactgcttaagcctcaataaagcttgccttgagtgcttcaagtagtgtgtgcccgtc
tgttgtgtgactctggtaactagagatccctcagacccttttagtcagtgtggaaaatctctagcagtagtagttca
tgtcatcttattattcagtatttataacttgcaaagaaatgaatatcagagagtgagaggaacttgtttattgcagc
ttataatggttacaaataaagcaatagcatcacaaatttcacaaataaagcatttttttcactgcattctagttgtg
gtttgtccaaactcatcaatgtatcttatcatgtctggctctagctatcccgcccctaactccgcccatcccgcccc
taactccgcccagttccgcccattctccgccccatggctgactaattttttttatttatgcagaggccgaggccgcc
tcggcctctgagctattccagaagtagtgaggaggcttttttggaggcctagggacgtacccaattcgccctatagt
gagtcgtattacgcgcgctcactggccgtcgttttacaacgtcgtgactgggaaaaccctggcgttacccaacttaa
tcgccttgcagcacatccccctttcgccagctggcgtaatagcgaagaggcccgcaccgatcgcccttcccaacagt
tgcgcagcctgaatggcgaatggacgcgccctgtagcggcgcattaagcgcggcgggtgtggtggttacgcgcagc
gtgaccgctacacttgccagcgccctagcgcccgctcctttcgctttcttcccttcctttctcgccacgttcgccgg
ctttccccgtcaagctctaaatcgggggctccctttagggttccgatttagtgctttacggcacctcgaccccaaaa
aacttgattagggtgatggttcacgtagtgggccatcgccctgatagacggtttttcgccctttgacgttggagtcc
acgttctttaatagtggactcttgttccaaactggaacaacactcaaccctatctcggtctattcttttgatttata
agggattttgccgatttcggcctattggttaaaaaatgagctgatttaacaaaaatttaacgcgaattttaacaaaa
tattaacgcttacaatttaggtggcacttttcggggaaatgtgcgcggaacccctatttgtttatttttctaaatac
attcaaatatgtatccgctcatgagacaataaccctgataaatgcttcaataatattgaaaaaggaagagtatgagt
attcaacatttccgtgtcgcccttattcccttttttgcggcattttgccttcctgtttttgctcacccagaaacgct
ggtgaaagtaaaagatgctgaagatcagttgggtgcacgagtgggttacatcgaactggatctcaacagcggtaaga
tccttgagagttttcgccccgaagaacgttttccaatgatgagcacttttaaagttctgctatgtggcgcggtatta
tcccgtattgacgccgggcaagagcaactcggtcgccgcatacactattctcagaatgacttggttgagtactcacc
agtcacagaaaagcatcttacggatggcatgacagtaagagaattatgcagtgctgccataaccatgagtgataaca
ctgcggccaacttacttctgacaacgatcggaggaccgaaggagctaaccgcttttttgcacaacatgggggatcat
gtaactcgccttgatcgttgggaaccggagctgaatgaagccataccaaacgacgagcgtgacaccacgatgcctgt
agcaatggcaacaacgttgcgcaaactattaactggcgaactacttactctagcttcccggcaacaattaatagact
ggatggaggcggataaagttgcaggaccacttctgcgctcggcccttccggctggctggtttattgctgataaatct
ggagccggtgagcgtgggtctcgcggtatcattgcagcactggggccagatggtaagccctcccgtatcgtagttat
ctacacgacggggagtcaggcaactatggatgaacgaaatagacagatcgctgagataggtgcctcactgattaagc
attggtaactgtcagaccaagtttactcatatatactttagattgatttaaaacttcatttttaatttaaaaggatc
taggtgaagatcctttttgataatctcatgaccaaaatcccttaacgtgagttttcgttccactgagcgtcagaccc
cgtagaaaagatcaaaggatcttcttgagatcctttttttctgcgcgtaatctgctgcttgcaaacaaaaaaaccac
cgctaccagcggtggtttgtttgccggatcaagagctaccaactctttttccgaaggtaactggcttcagcagagcg
cagataccaaatactgttcttctagtgtagccgtagttaggccaccacttcaagaactctgtagcaccgcctacata
cctcgctctgctaatcctgttaccagtggctgctgccagtggcgataagtcgtgtcttaccgggttggactcaagac
gatagttaccggataaggcgcagcggtcgggctgaacggggggttcgtgcacacagcccagcttggagcgaacgacc
tacaccgaactgagatacctacagcgtgagctatgagaaagcgccacgcttcccgaagggagaaaggcggacaggta
tccggtaagcggcagggtcggaacaggagagcgcacgagggagcttccagggggaaacgcctggtatctttatagtc
ctgtcgggtttcgccacctctgacttgagcgtcgatttttgtgatgctcgtcaggggggcggagcctatggaaaaac
gccagcaacgcggcctttttacggttcctggccttttgctggccttttgctcacatgttctttcctgcgttatcccc
tgattctgtggataaccgtattaccgcctttgagtgagctgataccgctcgccgcagccgaacgaccgagcgcagcg
agtcagtgagcgaggaagcggaagagcgcccaatacgcaaaccgcctctccccgcgcgttggccgattcattaatgc

Table 32 (continued) Nucleotide sequence of pLenti6/TR (SEQ ID NO: 116).

```
agctggcacgacaggtttcccgactggaaagcgggcagtgagcgcaacgcaattaatgtgagttagctcactcatta
ggcaccccaggctttacactttatgcttccggctcgtatgttgtgtggaattgtgagcggataacaatttcacacag
gaaacagctatgaccatgattacgccaagcgcgcaattaaccctcactaaagggaacaaaagctggagctgcaagct
t
```

Please amend Table 33 on pages 459 and 460 as follows:

Table 33: Nucleotide sequence of pLenti6/V5 (SEQ ID NO: 117).

aatgtagtcttatgcaatactcttgtagtcttgcaacatggtaacgatgagttagcaacatgccttacaaggagaga
aaaagcaccgtgcatgccgattggtggaagtaaggtggtacgatcgtgccttattaggaaggcaacagacgggtctg
acatggattggacgaaccactgaattgccgcattgcagagatattgtatttaagtgcctagctcgatacataaacgg
gtctctctggttagaccagatctgagcctgggagctctctggctaactagggaacccactgcttaagcctcaataaa
gcttgccttgagtgcttcaagtagtgtgtgcccgtctgttgtgtgactctggtaactagagatccctcagaccctttt
tagtcagtgtggaaaatctctagcagtggcgcccgaacagggacttgaaagcgaaagggaaaccagaggagctctct
cgacgcaggactcggcttgctgaagcgcgcacggcaagaggcgaggggcggcgactggtgagtacgccaaaaatttt
gactagcggaggctagaaggagagagatgggtgcgagagcgtcagtattaagcgggggagaattagatcgcgatggg
aaaaaattcggttaaggccagggggaaagaaaaaatataaattaaaacatatagtatgggcaagcagggagctagaa
cgattcgcagttaatcctggcctgttagaaacatcagaaggctgtagacaaatactgggacagctacaaccatccct
tcagacaggatcagaagaacttagatcattatataatacagtagcaaccctctattgtgtgcatcaaaggatagaga
taaaagacaccaaggaagctttagacaagatagaggaagagcaaaacaaaagtaagaccaccgcacagcaagcggcc
gctgatcttcagacctggaggaggagatatgagggacaattggagaagtgaattatataaatataaagtagtaaaaa
ttgaaccattaggagtagcacccaccaaggcaaagagaagagtggtgcagagagaaaaaagagcagtgggaatagga
gctttgttccttgggttcttgggagcagcaggaagcactatgggcgcagcgtcaatgacgctgacggtacaggccag
acaattattgtctggtatagtgcagcagcagaacaatttgctgagggctattgaggcgcaacagcatctgttgcaac
tcacagtctggggcatcaagcagctccaggcaagaatcctggctgtggaaagatacctaaaggatcaacagctcctg
gggatttggggttgctctggaaaactcatttgcaccactgctgtgccttggaatgctagttggagtaataaatctct
ggaacagatttggaatcacacgacctggatggagtgggacagagaaattaacaattacacaagcttaatacactcct
taattgaagaatcgcaaaaccagcaagaaaagaatgaacaagaattattggaattagataaatgggcaagtttgtgg
aattggtttaacataacaaattggctgtggtatataaaattattcataatgatagtaggaggcttggtaggtttaag
aatagtttttgctgtactttctatagtgaatagagttaggcagggatattcaccattatcgtttcagacccacctcc
caaccccgaggggacccgacaggcccgaaggaatagaagaagaaggtggagagagagacagagacagatccattcga
ttagtgaacggatctcgacggtatcgataagcttgggagttccgcgttacataacttacggtaaatggcccgcctgg
ctgaccgcccaacgacccccgcccattgacgtcaataatgacgtatgttcccatagtaacgccaatagggactttcc
attgacgtcaatgggtggagtatttacggtaaactgcccacttggcagtacatcaagtgtatcatatgccaagtacg
ccccctattgacgtcaatgacggtaaatggcccgcctggcattatgcccagtacatgaccttatgggactttcctac
ttggcagtacatctacgtattagtcatcgctattaccatggtgatgcggttttggcagtacatcaatgggcgtggat
agcggtttgactcacggggatttccaagtctccaccccattgacgtcaatgggagtttgttttggcaccaaaatcaa
cgggactttccaaaatgtcgtaacaactccgccccattgacgcaaatgggcggtaggcgtgtacggtgggaggtcta
tataagcagagctcgtttagtgaaccgtcagatcgcctggagacgccatccacgctgttttgacctccatagaagac
accgactctagaggatccactagtccagtgtggtggaattctgcagatatccagcacagtggcggccgctcgagtct
agagggcccgcggttcgaaggtaagcctatccctaaccctctcctcggtctcgattctacgcgtaccggttagtaat
gagtttggaattaattctgtggaatgtgtgtcagttagggtgtggaaagtccccaggctccccaggcaggcagaagt
atgcaaagcatgcatctcaattagtcagcaaccaggtgtggaaagtccccaggctccccagcaggcagaagtatgca
aagcatgcatctcaattagtcagcaaccatagtcccgcccctaactccgcccatcccgcccctaactccgcccagtt
ccgcccattctccgccccatggctgactaattttttttatttatgcagaggccgaggccgcctctgcctctgagcta
ttccagaagtagtgaggaggcttttttggaggcctaggcttttgcaaaaagctcccgggagcttgtatatccatttt
cggatctgatcagcacgtgttgacaattaatcatcggcatagtatatcggcatagtataatacgacaaggtgaggaa
ctaaaccatggccaagcctttgtctcaagaagaatccaccctcattgaaagagcaacggctacaatcaacagcatcc
ccatctctgaagactacagcgtcgccagcgcagctctctctagcgacggccgcatcttcactggtgtcaatgtatat
cattttactggggaccttgtgcagaactcgtggtgctgggcactgctgctgctgcggcagctggcaacctgacttg
tatcgtcgcgatcggaaatgagaacaggggcatcttgagcccctgcggacggtgccgacaggtgcttctcgatctgc
atcctgggatcaaagccatagtgaaggacagtgatggacagccgacggcagttgggattcgtgaattgctgccctct
ggttatgtgtgggagggctaagcacaattcgagctcggtacctttaagaccaatgacttacaaggcagctgtagatc
ttagccactttttaaaagaaaaggggggactggaagggctaattcactcccaacgaagacaagatctgcttttttgct
tgtactgggtctctctggttagaccagatctgagcctgggagctctctggctaactagggaacccactgcttaagcc
tcaataaagcttgccttgagtgcttcaagtagtgtgtgcccgtctgttgtgtgactctggtaactagagatccctca
gacccttttagtcagtgtggaaaatctctagcagtagtagttcatgtcatcttattattcagtatttataacttgca
aagaaatgaatatcagagagtgagaggaacttgtttattgcagcttataatggttacaaataaagcaatagcatcac
aaatttcacaaataaagcatttttttcactgcattctagttgtggtttgtccaaactcatcaatgtatcttatcatg

Table 33 (continued)Nucleotide sequence of pLenti6/V5 (SEQ ID NO: 117).

tctggctctagctatcccgcccctaactccgcccatcccgcccctaactccgcccagttccgcccattctccgcccc
atggctgactaattttttttatttatgcagaggccgaggccgcctcggcctctgagctattccagaagtagtgagga
ggcttttttggaggcctagggacgtacccaattcgccctatagtgagtcgtattacgcgcgctcactggccgtcgtt
ttacaacgtcgtgactgggaaaaccctggcgttacccaacttaatcgccttgcagcacatccccctttcgccagctg
gcgtaatagcgaagaggcccgcaccgatcgcccttcccaacagttgcgcagcctgaatggcgaatgggacgcgccct
gtagcggcgcattaagcgcggcgggtgtggtggttacg
cgcagcgtgaccgctacacttgccagcgccctagcgcccgctcctttcgctttcttcccttcctttctcgccacgtt
cgccggctttccccgtcaagctctaaatcgggggctccctttagggttccgatttagtgctttacggcacctcgacc
ccaaaaaacttgattagggtgatggttcacgtagtgggccatcgccctgatagacggtttttcgccctttgacgttg
gagtccacgttctttaatagtggactcttgttccaaactggaacaacactcaaccctatctcggtctattcttttga
tttataagggattttgccgatttcggcctattggttaaaaaatgagctgatttaacaaaaatttaacgcgaatttta
acaaaatattaacgcttacaatttaggtggcacttttcggggaaatgtgcgcggaacccctatttgtttatttttct
aaatacattcaaatatgtatccgctcatgagacaataaccctgataaatgcttcaataatattgaaaaaggaagagt
atgagtattcaacatttccgtgtcgcccttattcccttttttgcggcattttgccttcctgtttttgctcacccaga
aacgctggtgaaagtaaaagatgctgaagatcagttgggtgcacgagtgggttacatcgaactggatctcaacagcg
gtaagatccttgagagttttcgccccgaagaacgttttccaatgatgagcacttttaaagttctgctatgtggcgcg
gtattatcccgtattgacgccgggcaagagcaactcggtcgccgcatacactattctcagaatgacttggttgagta
ctcaccagtcacagaaaagcatcttacggatggcatgacagtaagagaattatgcagtgctgccataaccatgagtg
ataacactgcggccaacttacttctgacaacgatcggaggaccgaaggagctaaccgcttttttgcacaacatgggg
gatcatgtaactcgccttgatcgttgggaaccggagctgaatgaagccataccaaacgacgagcgtgacaccacgat
gcctgtagcaatggcaacaacgttgcgcaaactattaactggcgaactacttactctagcttcccggcaacaattaa
tagactggatggaggcggataaagttgcaggaccacttctgcgctcggcccttccggctggctggtttattgctgat
aaatctggagccggtgagcgtgggtctcgcggtatcattgcagcactggggccagatggtaagccctcccgtatcgt
agttatctacacgacggggagtcaggcaactatggatgaacgaaatagacagatcgctgagataggtgcctcactga
ttaagcattggtaactgtcagaccaagtttactcatatatactttagattgatttaaaacttcatttttaatttaa
aggatctaggtgaagatcctttttgataatctcatgaccaaaatcccttaacgtgagttttcgttccactgagcgtc
agaccccgtagaaaagatcaaaggatcttcttgagatcctttttttctgcgcgtaatctgctgcttgcaaacaaaaa
aaccaccgctaccagcggtggtttgtttgccggatcaagagctaccaactctttttccgaaggtaactggcttcagc
agagcgcagataccaaatactgttcttctagtgtagccgtagttaggccaccacttcaagaactctgtagcaccgcc
tacatacctcgctctgctaatcctgttaccagtggctgctgccagtggcgataagtcgtgtcttaccgggttggact
caagacgatagttaccggataaggcgcagcggtcgggctgaacggggggttcgtgcacacagcccagcttggagcga
acgacctacaccgaactgagatacctacagcgtgagctatgagaaagcgccacgcttcccgaagggagaaaggcgga
caggtatccggtaagcggcagggtcggaacaggagagcgcacgagggagcttccagggggaaacgcctggtatcttt
atagtcctgtcgggtttcgccacctctgacttgagcgtcgatttttgtgatgctcgtcaggggggcggagcctatgg
aaaaacgccagcaacgcggcctttttacggttcctggccttttgctggccttttgctcacatgttctttcctgcgtt
atcccctgattctgtggataaccgtattaccgcctttgagtgagctgataccgctcgccgcagccgaacgaccgagc
gcagcgagtcagtgagcgaggaagcggaagagcgcccaatacgcaaaccgcctctccccgcgcgttggccgattcat
taatgcagctggcacgacaggtttcccgactggaaagcgggcagtgagcgcaacgcaattaatgtgagttagctcac
tcattaggcaccccaggctttacactttatgcttccggctcgtatgttgtgtggaattgtgagcggataacaatttc
acacaggaaacagctatgaccatgattacgccaagcgcgcaattaaccctcactaaagggaacaaaagctggagctg
caagctt

Please amend Table 34 on pages 461 and 462 as follows:

Table 34: Nucleotide sequence of pLenti3/V5-TREx (SEQ ID NO: 118).

aatgtagtcttatgcaatactcttgtagtcttgcaacatggtaacgatgagttagcaacatgccttacaaggagaga
aaaagcaccgtgcatgccgattggtggaagtaaggtggtacgatcgtgccttattaggaaggcaacagacgggtctg
acatggattggacgaaccactgaattgccgcattgcagagatattgtatttaagtgcctagctcgatacataaacgg
gtctctctggttagaccagatctgagcctgggagctctctggctaactagggaacccactgcttaagcctcaataaa
gcttgccttgagtgcttcaagtagtgtgtgcccgtctgttgtgtgactctggtaactagagatccctcagaccctttt
tagtcagtgtggaaaatctctagcagtggcgcccgaacagggacttgaaagcgaaagggaaaccagaggagctctct
cgacgcaggactcggcttgctgaagcgcgcacggcaagaggcgaggggcggcgactggtgagtacgccaaaaatttt
gactagcggaggctagaaggagagagatgggtgcgagagcgtcagtattaagcgggggagaattagatcgcgatggg
aaaaaattcggttaaggccagggggaaagaaaaaatataaattaaaacatatagtatgggcaagcagggagctagaa
cgattcgcagttaatcctggcctgttagaaacatcagaaggctgtagacaaatactgggacagctacaaccatccct
tcagacaggatcagaagaacttagatcattatataatacagtagcaaccctctattgtgtgcatcaaaggatagaga
taaaagacaccaaggaagctttagacaagatagaggaagagcaaaacaaaagtaagaccaccgcacagcaagcggcc
gctgatcttcagacctggaggaggagatatgagggacaattggagaagtgaattatataaatataaagtagtaaaaa
ttgaaccattaggagtagcacccaccaaggcaaagagaagagtggtgcagagagaaaaaagagcagtgggaatagga
gctttgttccttgggttcttgggagcagcaggaagcactatgggcgcagcgtcaatgacgctgacggtacaggccag
acaattattgtctggtatagtgcagcagcagaacaatttgctgagggctattgaggcgcaacagcatctgttgcaac
tcacagtctggggcatcaagcagctccaggcaagaatcctggctgtggaaagatacctaaaggatcaacagctcctg
gggatttggggttgctctggaaaactcatttgcaccactgctgtgccttggaatgctagttggagtaataaatctct
ggaacagatttggaatcacacgacctggatggagtgggacagagaaattaacaattacacaagcttaatacactcct
taattgaagaatcgcaaaaccagcaagaaaagaatgaacaagaattattggaattagataaatgggcaagtttgtgg
aattggtttaacataacaaattggctgtggtatataaaattattcataatgatagtaggaggcttggtaggtttaag
aatagtttttgctgtactttctatagtgaatagagttaggcagggatattcaccattatcgtttcagacccacctcc
caaccccgaggggacccgacaggcccgaaggaatagaagaagaaggtggagagagagacagagacagatccattcga
ttagtgaacggatctcgacggtatcgataagcttgggagttccgcgttacataacttacggtaaatggcccgcctgg
ctgaccgcccaacgacccccgcccattgacgtcaataatgacgtatgttcccatagtaacgccaatagggactttcc
attgacgtcaatgggtggagtatttacggtaaactgcccacttggcagtacatcaagtgtatcatatgccaagtacg
ccccctattgacgtcaatgacggtaaatggcccgcctggcattatgcccagtacatgaccttatgggactttcctac
ttggcagtacatctacgtattagtcatcgctattaccatggtgatgcggttttggcagtacatcaatgggcgtggat
agcggtttgactcacggggatttccaagtctccaccccattgacgtcaatgggagtttgttttggcaccaaaatcaa
cgggactttccaaaatgtcgtaacaactccgccccattgacgcaaatgggcggtaggcgtgtacggtgggaggtcta
tataagcagagctctccctatcagtgatagagatctccctatcagtgatagagatcgtcgacgagctcgtttagtga
accgtcagatcgcctggagacgccatccacgctgttttgacctccatagaagacaccgggaccgatccagcctccgg
actctagaggatccctaccggtgatatcctcgagtctagagggcccgcggttcgaaggtaagcctatccctaaccct
ctcctcggtctcgattctacgcgtaccggttagtaatgagtttggaattaattctgtggaatgtgtgtcagttaggg
tgtggaaagtccccaggctccccaggcaggcagaagtatgcaaagcatgcatctcaattagtcagcaaccaggtgtg
gaaagtccccaggctccccagcaggcagaagtatgcaaagcatgcatctcaattagtcagcaaccatagtcccgccc
ctaactccgcccatcccgcccctaactccgcccagttccgcccattctccgccccatggctgactaattttttttat
ttatgcagaggccgaggccgcctctgcctctgagctattccagaagtagtgaggaggcttttttggaggcctaggct
tttgcaaaaagctcccctgttgacaattaatcatcggcatagtatatcggcatagtataatacgacaaggtgagga
actaaaccatggcctcaattgaacaagatggattgcacgcaggttctccggccgcttgggtggagaggctattcggc
tatgactgggcacaacagacaatcggctgctctgatgccgccgtgttccggctgtcagcgcaggggcgcccggttct
ttttgtcaagaccgacctgtccggtgccctgaatgaactgcaggacgaggcagcgcggctatcgtggctggccacga
cgggcgttccttgcgcagctgtgctcgacgttgtcactgaagcgggaagggactggctgctattgggcgaagtgccg
gggcaggatctcctgtcatctcaccttgctcctgccgagaaagtatccatcatggctgatgcaatgcggcggctgca
tacgcttgatccggctacctgcccattcgaccaccaagcgaaacatcgcatcgagcgagcacgtactcggatggaag
ccggtcttgtcgatcaggatgatctggacgaagagcatcaggggctcgcgccagccgaactgttcgccaggctcaag
gcgcgcatgcccgacggcgaggatctcgtcgtgacccatggcgatgcctgcttgccgaatatcatggtggaaaatgg
ccgcttttctggattcatcgactgtggccggctgggtgtggcggaccgctatcaggacatagcgttggctacccgtg
atattgctgaagagcttggcggcgaatgggctgaccgcttcctcgtgctttacggtatcgccgctcccgattcgcag
cgcatcgccttctatcgccttcttgacgagttcttctgagcgggactctggggttcgaaatgaccgaccaagcgacg
cccaacctgccatcacgagtttaaactggtacctttaagaccaatgacttacaaggcagctgtagatcttagccact

Table 34 (continued) Nucleotide sequence of pLenti3/V5-TREx (SEQ ID NO: 118).

```
ttttaaaagaaaaggggggactggaagggctaattcactcccaacgaagacaagatctgctttttgcttgtactggg
tctctctggttagaccagatctgagcctgggagctctctggctaactagggaacccactgcttaagcctcaataaag
cttgccttgagtgcttcaagtagtgtgtgcccgtctgttgtgtgactctggtaactagagatccctcagacccttttt
agtcagtgtggaaaatctctagcagtagtagttcatgtcatcttattattcagtatttataacttgcaaagaaatga
atatcagagagtgagaggaacttgtttattgcagcttataatggttacaaataaagcaatagcatcacaaatttcac
aaataaagcatttttttcactgcattctagttgtggtttgtccaaactcatcaatgtatcttatcatgtctggctct
agctatcccgcccctaactccgcccatcccgcccct
aactccgcccagttccgcccattctccgccccatggctgactaattttttttatttatgcagaggccgaggccgcct
cggcctctgagctattccagaagtagtgaggaggcttttttggaggcctagggacgtacccaattcgccctatagtg
agtcgtattacgcgcgctcactggccgtcgttttacaacgtcgtgactgggaaaaccctggcgttacccaacttaat
cgccttgcagcacatccccctttcgccagctggcgtaatagcgaagaggcccgcaccgatcgcccttcccaacagtt
gcgcagcctgaatggcgaatgggacgcgccctgtagcggcgcattaagcgcggcgggtgtggtggttacgcgcagcg
tgaccgctacacttgccagcgccctagcgcccgctcctttcgctttcttcccttcctttctcgccacgttcgccggc
tttccccgtcaagctctaaatcgggggctccctttagggttccgatttagtgctttacggcacctcgaccccaaaaa
acttgattagggtgatggttcacgtagtgggccatcgccctgatagacggtttttcgccctttgacgttggagtcca
cgttctttaatagtggactcttgttccaaactggaacaacactcaaccctatctcggtctattcttttgatttataa
gggattttgccgatttcggcctattggttaaaaaatgagctgatttaacaaaaatttaacgcgaattttaacaaaat
attaacgcttacaatttaggtggcacttttcggggaaatgtgcgcggaacccctatttgtttatttttctaaataca
ttcaaatatgtatccgctcatgagacaataaccctgataaatgcttcaataatattgaaaaaggaagagtatgagta
ttcaacatttccgtgtcgcccttattcccttttttgcggcattttgccttcctgtttttgctcacccagaaacgctg
gtgaaagtaaaagatgctgaagatcagttgggtgcacgagtgggttacatcgaactggatctcaacagcggtaagat
ccttgagagttttcgccccgaagaacgttttccaatgatgagcacttttaaagttctgctatgtggcgcggtattat
cccgtattgacgccgggcaagagcaactcggtcgccgcatacactattctcagaatgacttggttgagtactcacca
gtcacagaaaagcatcttacggatggcatgacagtaagagaattatgcagtgctgccataaccatgagtgataacac
tgcggccaacttacttctgacaacgatcggaggaccgaaggagctaaccgcttttttgcacaacatgggggatcatg
taactcgccttgatcgttgggaaccggagctgaatgaagccataccaaacgacgagcgtgacaccacgatgcctgta
gcaatggcaacaacgttgcgcaaactattaactggcgaactacttactctagcttcccggcaacaattaatagactg
gatggaggcggataaagttgcaggaccacttctgcgctcggcccttccggctggctggtttattgctgataaatctg
gagccggtgagcgtgggtctcgcggtatcattgcagcactggggccagatggtaagccctcccgtatcgtagttatc
tacacgacggggagtcaggcaactatggatgaacgaaatagacagatcgctgagataggtgcctcactgattaagca
ttggtaactgtcagaccaagtttactcatatatactttagattgatttaaaacttcatttttaatttaaaaggatct
aggtgaagatcctttttgataatctcatgaccaaaatcccttaacgtgagttttcgttccactgagcgtcagacccc
gtagaaaagatcaaaggatcttcttgagatcctttttttctgcgcgtaatctgctgcttgcaaacaaaaaaaccacc
gctaccagcggtggtttgtttgccggatcaagagctaccaactctttttccgaaggtaactggcttcagcagagcgc
agataccaaatactgttcttctagtgtagccgtagttaggccaccacttcaagaactctgtagcaccgcctacatac
ctcgctctgctaatcctgttaccagtggctgctgccagtggcgataagtcgtgtcttaccgggttggactcaagacg
atagttaccggataaggcgcagcggtcgggctgaacggggggttcgtgcacacagcccagcttggagcgaacgacct
acaccgaactgagatacctacagcgtgagctatgagaaagcgccacgcttcccgaagggagaaaggcggacaggtat
ccggtaagcggcagggtcggaacaggagagcgcacgagggagcttccagggggaaacgcctggtatctttatagtcc
tgtcgggtttcgccacctctgacttgagcgtcgatttttgtgatgctcgtcaggggggcggagcctatggaaaaacg
ccagcaacgcggcctttttacggttcctggccttttgctggccttttgctcacatgttctttcctgcgttatcccct
gattctgtggataaccgtattaccgcctttgagtgagctgataccgctcgccgcagccgaacgaccgagcgcagcga
gtcagtgagcgaggaagcggaagagcgcccaatacgcaaaccgcctctccccgcgcgttggccgattcattaatgca
gctggcacgacaggtttcccgactggaaagcgggcagtgagcgcaacgcaattaatgtgagttagctcactcattag
gcaccccaggctttacactttatgcttccggctcgtatgttgtgtggaattgtgagcggataacaatttcacacagg
aaacagctatgaccatgattacgccaagcgcgcaattaaccctcactaaagggaacaaaagctggagctgcaagctt
```

Please amend Table 35 on page 463 as follows:

Table 35: Nucleotide sequence of a nucleic acid fragment containing the tetracycline repressor coding sequence (SEQ ID NO: 119).

```
agcttggtacccggggatcctctagggcctctgagctattccagaagtagtgaagaggcttttttggaggcctaggc
ttttgcaaaaagctccggatcgatcctgagaacttcagggtgagtttggggacccttgattgttctttctttttcgc
tattgtaaaattcatgttatatggagggggcaaagttttcagggtgttgtttagaatgggaagatgtcccttgtatc
accatggaccctcatgataatttgtttctttcactttctactctgttgacaaccattgtctcctcttattttcttt
tcattttctgtaactttttcgttaaactttagcttgcatttgtaacgaatttttaaattcacttttgtttatttgtc
agattgtaagtactttctctaatcactttttttttcaaggcaatcagggtatattatattgtacttcagcacagtttt
agagaacaattgttataattaaatgataaggtagaatatttctgcatataaattctggctggcgtggaaatattctt
attggtagaaacaactacatcctggtcatcatcctgcctttctctttatggttacaatgatatacactgtttgagat
gaggataaaatactctgagtccaaaccgggcccctctgctaaccatgttcatgccttcttctttttcctacagctcc
tgggcaacgtgctggttattgtgctgtctcatcattttggcaaagaattgtaatacgactcactatagggcgaattg
atatgtctagattagataaaagtaaagtgattaacagcgcattagagctgcttaatgaggtcggaatcgaaggttta
acaacccgtaaactcgcccagaagctaggtgtagagcagcctacattgtattggcatgtaaaaaataagcgggcttt
gctcgacgccttagccattgagatgttagataggcaccatactcacttttgccctttagaaggggaaagctggcaag
atttttacgtaataacgctaaaagttttagatgtgctttactaagtcatcgcgatggagcaaaagtacatttaggt
acacggcctacagaaaaacagtatgaaactctcgaaaatcaattagcctttttatgccaacaaggtttttcactaga
gaatgcattatatgcactcagcgctgtggggcattttactttaggttgcgtattggaagatcaagagcatcaagtcg
ctaaagaagaaagggaaacacctactactgatagtatgccgccattattacgacaagctatcgaattatttgatcac
caaggtgcagagccagccttcttattcggccttgaattgatcatatgcggattagaaaaacaacttaaatgtgaaag
tgggtccgcgtacagcggatcccgggaattctagagggcccgcggttcgaacaaaaactcatctcagaagaggatct
gaatatgcata
```

Please amend Table 36 on pages 464 and 465 as follows:

Table 36: Nucleotide sequence of pRRL6/V5 also referred to as pLenti6/V5 (SEQ ID NO: 120).

```
   1 aatgtagtct tatgcaatac tcttgtagtc ttgcaacatg gtaacgatga gttagcaaca
  61 tgccttacaa ggagagaaaa agcaccgtgc atgccgattg gtggaagtaa ggtggtacga
 121 tcgtgcctta ttaggaaggc aacagacggg tctgacatgg attggacgaa ccactgaatt
 181 gccgcattgc agagatattg tatttaagtg cctagctcga tacaataaac gggtctctct
 241 ggttagacca gatctgagcc tgggagctct ctggctaact agggaaccca ctgcttaagc
 301 ctcaataaag cttgccttga gtgcttcaag tagtgtgtgc ccgtctgttg tgtgactctg
 361 gtaactagag atccctcaga cccttttagt cagtgtggaa aatctctagc agtggcgccc
 421 gaacagggac ctgaaagcga aagggaaacc agagctctct cgacgcagga ctcggcttgc
 481 tgaagcgcgc acggcaagag gcgaggggcg gcgactggtg agtacgccaa aaattttgac
 541 tagcggaggc tagaaggaga gagatgggtg cgagagcgtc agtattaagc gggggagaat
 601 tagatcgcga tgggaaaaaa ttcggttaag gccaggggga aagaaaaaat ataaattaaa
 661 acatatagta tgggcaagca gggagctaga acgattcgca gttaatcctg gcctgttaga
 721 aacatcagaa ggctgtagac aaatactggg acagctacaa ccatcccttc agacaggatc
 781 agaagaactt agatcattat ataatacagt agcaaccctc tattgtgtgc atcaaaggat
 841 agagataaaa gacaccaagg aagctttaga caagatagag gaagagcaaa acaaaagtaa
 901 gaccaccgca cagcaagcgg ccgctgatct tcagacctgg aggaggagat atgagggaca
 961 attggagaag tgaattatat aaatataaag tagtaaaaat tgaaccatta ggagtagcac
1021 ccaccaaggc aaagagaaga gtggtgcaga gagaaaaaag agcagtggga ataggagctt
1081 tgttccttgg gttcttggga gcagcaggaa gcactatggg cgcagcctca atgacgctga
1141 cggtacaggc cagacaatta ttgtctggta tagtgcagca gcagaacaat ttgctgaggg
1201 ctattgaggc gcaacagcat ctgttgcaac tcacagtctg gggcatcaag cagctccagg
1261 caagaatcct ggctgtggaa agatacctaa aggatcaaca gctcctgggg atttggggtt
1321 gctctggaaa actcatttgc accactgctg tgccttggaa tgctagttgg agtaataaat
1381 ctctggaaca gattggaatc acacgacctg gatggagtgg gacagagaaa ttaacaatta
1441 cacaagctta atacactcct taattgaaga atcgcaaaac cagcaagaaa agaatgaaca
1501 agaattattg gaattagata aatgggcaag tttgtggaat tggtttaaca taacaaattg
1561 gctgtggtat ataaaattat tcataatgat agtaggaggc ttggtaggtt taagaatagt
1621 ttttgctgta ctttctatag tgaatagagt taggcaggga tattcaccat tatcgtttca
1681 gacccacctc ccaaccccga ggggacccga caggcccgaa ggaatagaag aagaaggtgg
1741 agagagagac agagacagat ccattcgatt agtgaacgga tctcgacggt atcgataagc
1801 ttgggagttc cgcgttacat aacttacggt aaatggcccg cctggctgac cgcccaacga
1861 cccccgccca ttgacgtcaa taatgacgta tgttcccata gtaacgccaa tagggacttt
1921 ccattgacgt caatgggtgg agtatttacg gtaaactgcc cacttggcag tacatcaagt
1981 gtatcatatg ccaagtacgc cccctattga cgtcaatgac ggtaaatggc ccgcctggca
2041 ttatgcccag tacatgacct tatgggactt tcctacttgg cagtacatct acgtattagt
2101 catcgctatt accatggtga tgcggttttg gcagtacatc aatgggcgtg gatagcggtt
2161 tgactcacgg ggatttccaa gtctccaccc cattgacgtc aatgggagtt tgttttggca
2221 ccaaaatcaa cgggactttc caaaatgtcg taacaactcc gccccattga cgcaaatggg
2281 cggtaggcgt gtacggtggg aggtctatat aagcagagct cgtttagtga accgtcagat
2341 cgcctggaga cgccatccac gctgttttga cctccataga agacaccgac tctagaggat
2401 ccactagtcc agtgtggtgg aattctgcag atatccagca cagtggcggc cgctcgagtc
2461 tagagggccc gcggttcgaa ggtaagccta tccctaaccc tctcctcggt ctcgattcta
2521 cgcgtaccgg ttagtaatga gtttggcctg ctgccggctc tgcggcctct tccgcgtctt
2581 cgccttcgcc ctcagacgag tcggatctcc ctttgggccg cctccccgcc tggaattaat
2641 tctgtggaat gtgtgtcagt tagggtgtgg aaagtcccca ggctccccag gcaggcagaa
2701 gtatgcaaag catgcatctc aattagtcag caaccaggtg tggaaagtcc ccaggctccc
2761 cagcaggcag aagtatgcaa agcatgcatc tcaattagtc agcaaccata gtcccgcccc
2821 taactccgcc catcccgccc ctaactccgc ccagttccgc ccattctccg ccccatggct
2881 gactaatttt ttttatttat gcagaggccg aggccgcctc tgcctctgag ctattccaga
2941 agtagtgagg aggctttttt ggaggcctag gcttttgcaa aaagctcccg ggagcttgta
3001 tatccatttt cggatctgat cagcacgtgt tgacaattaa tcatcggcat agtatatcgg
3061 catagtataa tacgacaagg tgaggaacta aaccatggcc aagcctttgt ctcaagaaga
```

Table 36 (continued) Nucleotide sequence of pRRL6/V5 also referred to as pLenti6/V5 (SEQ ID NO: 120).

```
3121 atccaccctc attgaaagag caacggctac aatcaacagc atccccatct ctgaagacta
3181 cagcgtcgcc agcgcagctc tctctagcga cggccgcatc ttcactggtg tcaatgtata
3241 tcattttact gggggacctt gtgcagaact cgtggtgctg ggcactgctg ctgctgcggc
3301 agctggcaac ctgacttgta tcgtcgcgat cggaaatgag aacaggggca tcttgagccc
3361 ctgcggacgg tgccgacagg tgcttctcga tctgcatcct gggatcaaag ccatagtgaa
3421 ggacagtgat ggacagccga cggcagttgg gattcgtgaa ttgctgccct ctggttatgt
3481 gtgggagggc taagcacaat tcgagctcgg tacctttaag accaatgact tacaaggcag
3541 ctgtagatct tagccacttt ttaaaagaaa aggggggact ggaagggcta attcactccc
3601 aacgaagaca agatctgctt tttgcttgta ctgggtctct ctggttagac cagatctgag
3661 cctgggagct ctctggctaa ctagggaacc cactgcttaa gcctcaataa agcttgcctt
3721 gagtgcttca agtagtgtgt gcccgtctgt tgtgtgactc tggtaactag agatccctca
3781 gacccttta gtcagtgtgg aaaatctcta gcagtagtag ttcatgtcat cttattattc
3841 agtatttata acttgcaaag aaatgaatat cagagagtga gaggaacttg tttattgcag
3901 cttataatgg ttacaaataa agcaatagca tcacaaattt cacaaataaa gcattttttt
3961 cactgcattc tagttgtggt ttgtccaaac tcatcaatgt atcttatcat gtctggctct
4021 agctatcccg cccctaactc cgcccagttc cgcccattct ccgccccatg gctgactaat
4081 ttttttattt tatgcagagg ccgaggccgc ctcggcctct gagctattcc agaagtagtg
4141 aggaggcttt tttggaggcc taggcttttg cgtcgagacg tacccaattc gccctatagt
4201 gagtcgtatt acgcgcgctc actggccgtc gttttacaac gtcgtgactg ggaaaaccct
4261 ggcgttaccc aacttaatcg ccttgcagca catccccctt tcgccagctg gcgtaatagc
4321 gaagaggccc gcaccgatcg cccttcccaa cagttgcgca gcctgaatgg cgaatggcgc
4381 gacgcgccct gtagcggcgc attaagcgcg gcgggtgtgg tggttacgcg cagcgtgacc
4441 gctacacttg ccagcgccct agcgcccgct cctttcgctt tcttcccttc ctttctcgcc
4501 acgttcgccg gctttccccg tcaagctcta aatcgggggc tccctttagg gttccgattt
4561 agtgctttac ggcacctcga ccccaaaaaa cttgattagg gtgatggttc acgtagtggg
4621 ccatcgccct gatagacggt ttttcgccct ttgacgttgg agtccacgtt ctttaatagt
4681 ggactcttgt tccaaactgg aacaacactc aaccctatct cggtctattc ttttgattta
4741 taagggattt tgccgatttc ggcctattgg ttaaaaaatg agctgattta acaaaaattt
4801 aacgcgaatt ttaacaaaat attaacgttt acaatttccc aggtggcact tttcggggaa
4861 atgtgcgcgg aacccctatt tgtttatttt tctaaataca ttcaaatatg tatccgctca
4921 tgagacaata accctgataa atgcttcaat aatattgaaa aaggaagagt atgagtattc
4981 aacatttccg tgtcgccctt attccctttt ttgcggcatt ttgccttcct gtttttgctc
5041 acccagaaac gctggtgaaa gtaaaagatg ctgaagatca gttgggtgca cgagtgggtt
5101 acatcgaact ggatctcaac agcggtaaga tccttgagag ttttcgcccc gaagaacgtt
5161 ttccaatgat gagcactttt aaagttctgc tatgtggcgc ggtattatcc cgtattgacg
5221 ccgggcaaga gcaactcggt cgccgcatac actattctca gaatgacttg gttgagtact
5281 caccagtcac agaaaagcat cttacggatg gcatgacagt aagagaatta tgcagtgctg
5341 ccataaccat gagtgataac actgcggcca acttacttct gacaacgatc ggaggaccga
5401 aggagctaac cgcttttttg cacaacatgg gggatcatgt aactcgcctt gatcgttggg
5461 aaccggagct gaatgaagcc ataccaaacg acgagcgtga caccacgatg cctgtagcaa
5521 tggcaacaac gttgcgcaaa ctattaactg gcgaactact tactctagct tcccggcaac
5581 aattaataga ctggatggag gcggataaag ttgcaggacc acttctgcgc tcggcccttc
5641 cggctggctg gtttattgct gataaatctg gagccggtga gcgtgggtct cgcggtatca
5701 ttgcagcact ggggccagat ggtaagccct cccgtatcgt agttatctac acgacgggga
5761 gtcaggcaac tatggatgaa cgaaatagac agatcgctga gataggtgcc tcactgatta
5821 agcattggta actgtcagac caagtttact catatatact ttagattgat ttaaaacttc
5881 atttttaatt taaaaggatc taggtgaaga tcctttttga taatctcatg accaaaatcc
5941 cttaacgtga gttttcgttc cactgagcgt cagaccccgt agaaaagatc aaaggatctt
6001 cttgagatcc tttttttctg cgcgtaatct gctgcttgca aacaaaaaaa ccaccgctac
6061 cagcggtggt ttgtttgccg gatcaagagc taccaactct ttttccgaag gtaactggct
6121 tcagcagagc gcagatacca aatactgtcc ttctagtgta gccgtagtta ggccaccact
6181 tcaagaactc tgtagcaccg cctacatacc tcgctctgct aatcctgtta ccagtggctg
6241 ctgccagtgg cgataagtcg tgtcttaccg ggttggactc aagacgatag ttaccggata
6301 aggcgcagcg gtcgggctga acggggggtt cgtgcacaca gcccagcttg gagcgaacga
```

Table 36 (continued) Nucleotide sequence of pRRL6/V5 also referred to as pLenti6/V5 (SEQ ID NO: 120).

```
6361 cctacaccga actgagatac ctacagcgtg agctatgaga aagcgccacg cttcccgaag
6421 ggagaaaggc ggacaggtat ccggtaagcg gcagggtcgg aacaggagag cgcacgaggg
6481 agcttccagg gggaaacgcc tggtatcttt atagtcctgt cgggtttcgc cacctctgac
6541 ttgagcgtcg atttttgtga tgctcgtcag gggggcggag cctatggaaa aacgccagca
6601 acgcggcctt tttacggttc ctggcctttt gctggccttt tgctcacatg ttctttcctg
6661 cgttatcccc tgattctgtg gataaccgta ttaccgcctt tgagtgagct gataccgctc
6721 gccgcagccg aacgaccgag cgcagcgagt cagtgagcga ggaagcggaa gagcgcccaa
6781 tacgcaaacc gcctctcccc gcgcgttggc cgattcatta atgcagctgg cacgacaggt
6841 ttcccgactg gaaagcgggc agtgagcgca acgcaattaa tgtgagttag ctcactcatt
6901 aggcacccca ggctttacac tttatgcttc cggctcgtat gttgtgtgga attgtgagcg
6961 gataacaatt tcacacagga aacagctatg accatgatta cgccaagcgc gcaattaacc
7021 ctcactaaag ggaacaaaag ctggagctgc aagctt
```

At the end of the application, and before the drawings, please insert the sequence listing attached hereto.